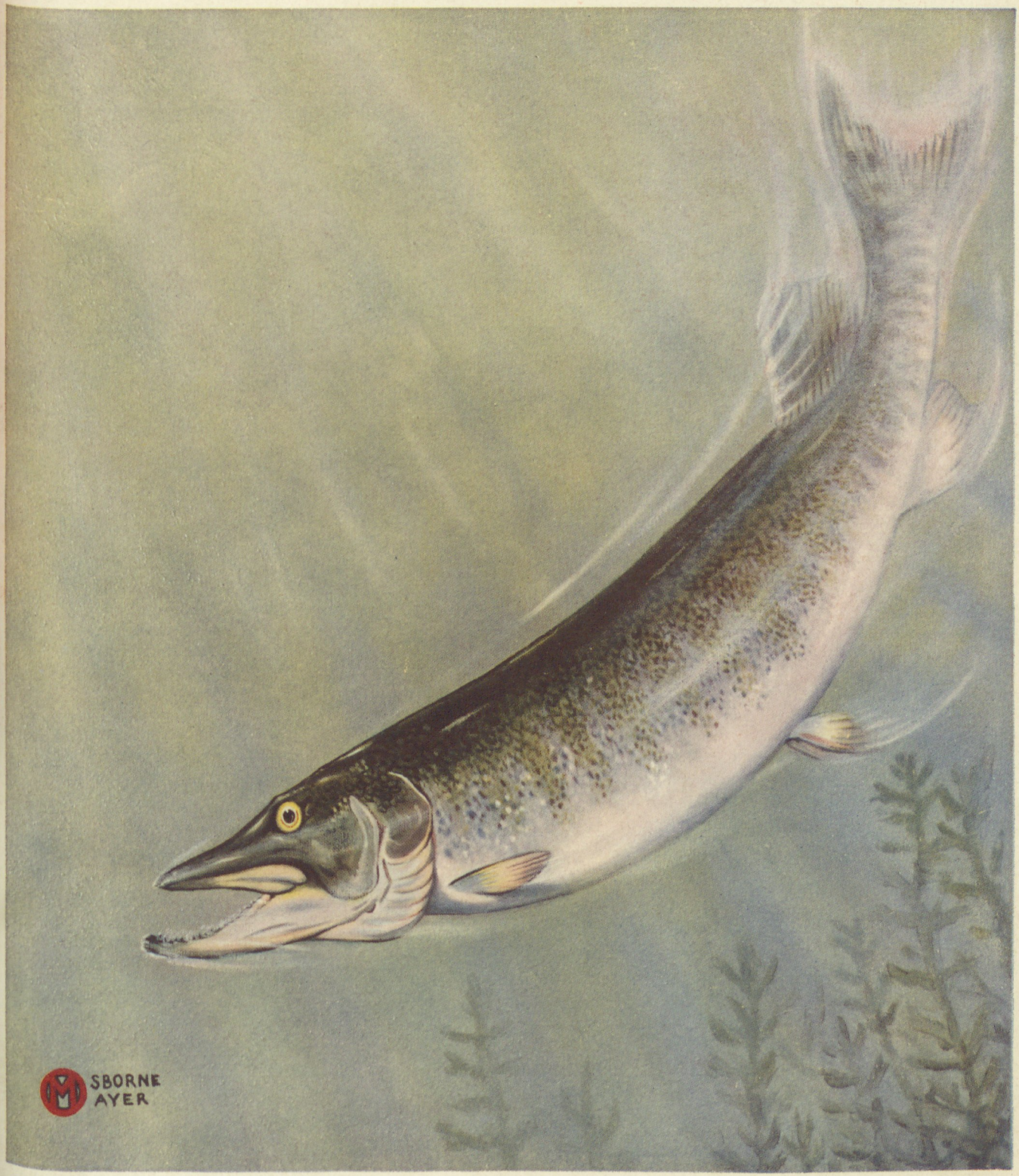
Outdoor America

JULY, 1926

Price 25 Cents

Owned and Published by the Izaak Walton League of America

DEFENDER OF WOODS, WATERS AND WILD LIFE



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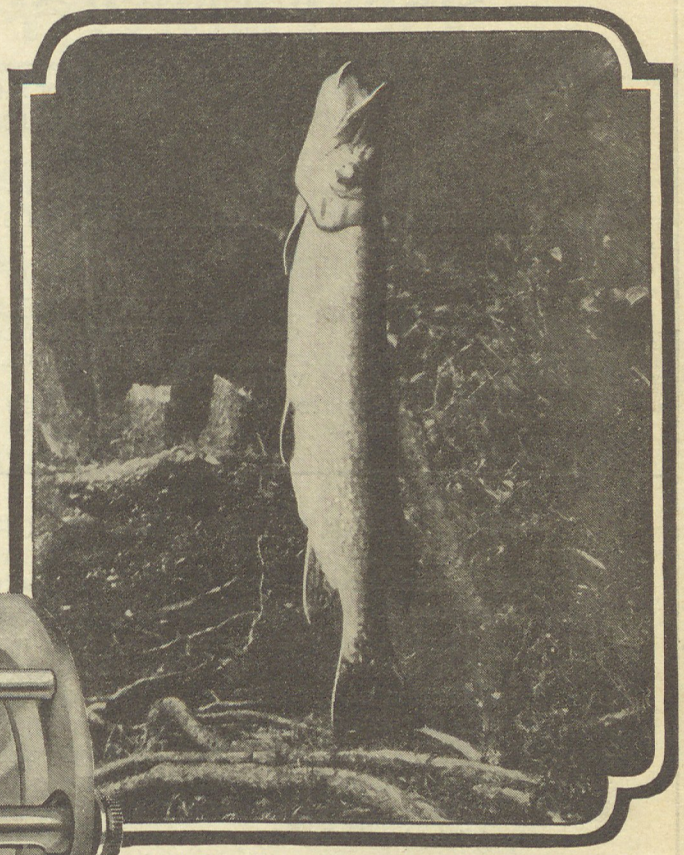
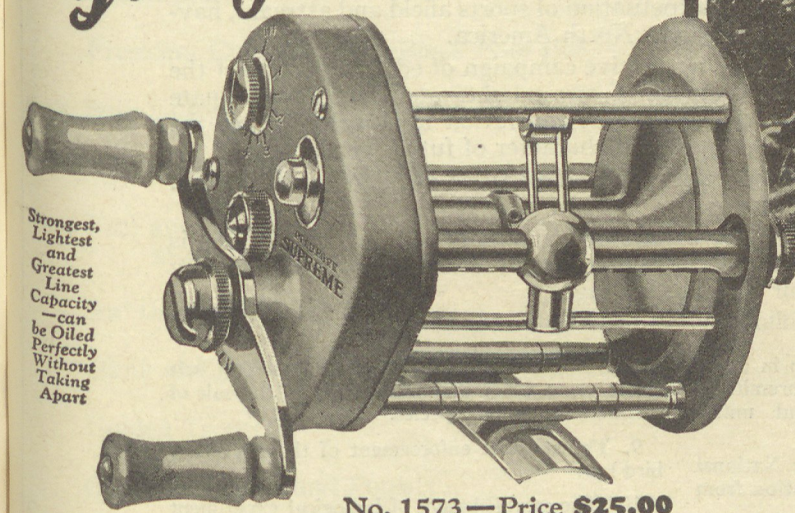
Pflueger's "Supreme" reel takes world record 36½ lb Great Northern Pike!



World's Record Great Northern Pike—36½ lbs. Caught by Mr. Wm. E. Bostwick using a Pflueger Supreme Reel. Mr. Bostwick states this is the BEST REEL of any kind he has ever owned



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FOR fifteen years Field and Stream Annual Prize Fishing Contests have been recognized by fishermen as National Sporting Events. Famous fishermen using every advantage of skill and tackle have sought to win the much coveted honors.

This year Wm. E. Bostwick, using a Pflueger Supreme — level wind — anti-backlash Reel—not only won the first prize in the Great Northern Pike class for 1925 —but broke the world's record with a 36½ pound fish.

Other Prize Winners—*Pflueger Tackle*

In the Field and Stream contest the Reel and Baits illustrated all brought their users into the prize winning class.

Mr. Chas. M. Bott came into the limelight with a 26½ lb. lake trout, hooked on a Pflueger Bait.

Mr. J. C. Stafford was rewarded by reeling in a beautiful 12 lb. wall eyed pike with a Pflueger Reel.

Mr. Burr Richards led all contestants in the Northern Division with an 8 lb. 10 oz. black bass, taken on a Pflueger Luminous Tandem Spinner, while Mr. S. B. Kramer using a Pflueger Reel eased into third place.

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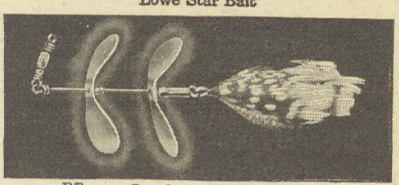

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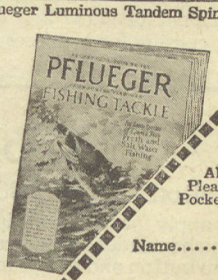

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THE IZAAK WALTON LEAGUE OF AMERICA is a national organization of sportsmen and sportswomen actively interested in the preservation and restoration of America's recreational areas and the perpetuation of sports afield and astream, having more than 2,000 chapter units throughout North America.

The League is conducting a practical, aggressive campaign of education against the further pollution of our waters, the drainage of our marshes and the indiscriminate destruction of our forests, by arousing the present generation to a realization of the value of these areas to the health, happiness and character of future generations.

The League has no commercial interests, political alliances or religious affiliations. No officer or director receives a salary.

This magazine, to which the leading writers and artists of America contribute, is published only for the purpose of further disseminating information on the necessity for conserving the remnants of our national heritage.

The League's Platform is as follows:

1. The practice of true sportsmanship in hunting and fishing, and strenuous and unremitting opposition to illegal, destructive and unfair methods.

2. An aggressive program calling for National and State legislation to eradicate pollution from coastal and inland waters.

3. The broadest and most comprehensive system of Federal control feasible over our forests, to embrace the best features of the forestry policies of Europe so far as applicable to our conditions.

4. Constructive opposition to artificial drainage which will be injurious to any natural resources, and the restoration of desecrated areas.

5. That adequate public shooting and fishing grounds and game refuges be established by the State and National Governments.

6. Sufficient fish hatcheries and game farms for the increased propagation and wider distribution of fish and game.

7. Prohibition of the sale and interstate shipment of game and of fresh water game fishes excepting for purposes of propagation.

8. Scientific regulation of the taking of salt water game fishes and prohibition of the sale of certain anadromous species.

9. The strictest enforcement of the migratory bird law.

10. The establishment of biological experiment stations to train scientific workers so that all game and fish propagation and distribution may be safeguarded by expert supervision and counsel.

11. The united support of those public officials, regardless of their party affiliations, who show themselves to be in sympathy with the principles of true conservation.

12. The fullest measure of co-operation between all organizations devoted to the interests of the outdoorsmen of America.

13. An unceasing, aggressive, educational campaign to the end that the objects of the Izaak Walton League of America may be attained.

14. That outdoor recreation as a major part of the life, education and spiritual development of the American youth be nurtured.

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Izaak Walton League, 536 Lake Shore Drive, Chicago, Illinois 1926

I hereby apply for Membership-at-large in the Izaak Walton League, which includes a membership card, a handsome bronze membership button and one year's subscription to the League's magazine, OUTDOOR AMERICA.

If I am accepted I agree to pay $3.00 for the first year's annual dues, and magazine, when bill is presented.

Applicants may enclose $3.00 with application. If for any reason applicant is not accepted, money will be returned.

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Applicant for Membership-at-large not accepted if in a community where the League has a local chapter. Subscription price for magazine without membership, $3.00 per year.

Defender of Woods, Waters and Wild Life

Outdoor America

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GAME FARMS AND FISH HATCHERIES FOR INCREASED PROPAGATION AND DISTRIBUTION OF FISH AND GAME
McCUTCHEON

A BATTLE THE IZAAK WALTON LEAGUE IS WINNING

This splendid cartoon was drawn especially for Outdoor America by the internationally famous John T. McCutcheon. In a future issue Mr. McCutcheon will describe one of his big game hunting trips in Africa.

Vol. 4 No. 12

July Outdoor America 1926

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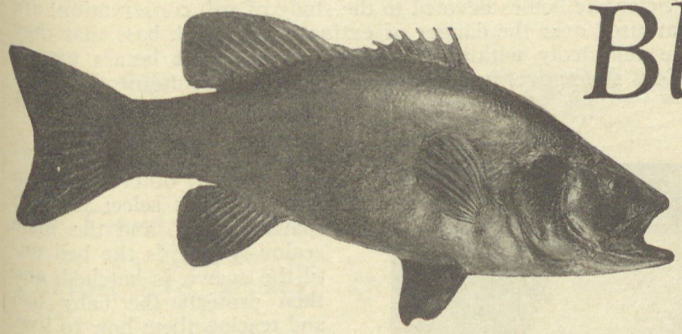
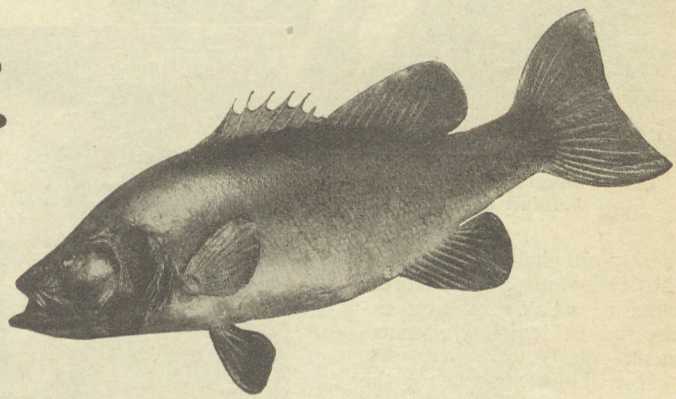
President Coolidge Signs Black Bass Bill





Great Waltonian measure becomes a law May 20

MAY 20, 1926, will always remain a red letter day in the annals of constructive conservation history for that is the date on which President Coolidge signed the Hawes Black Bass Bill regulating the interstate shipment of black bass.

It is a blow to the doughty restaurant owner who flagrantly flaunted "bass in season" to the public via his menus. Those who are too lazy to go out and catch their bass will go without bass from now on as the new legislation known as Public Law No. 256 definitely precludes commercial shipment of this species for anything except stocking purposes.

The bill, which was sponsored and actively supported by the Izaak Walton League of America, was drafted by Congressman Harry B. Hawes of Missouri. Mr. Hawes introduced the measure in the House of Representatives and Senator James E. Watson, of Indiana, introduced it in the Senate. Both of these bodies received the legislation with hearty approval and many splendid tributes were paid to the black bass.

Mr. Hawes, the man who introduced the League's Upper Mississippi River Bill in Congress, and whose keen advice and interest were largely responsible for its passage, realized the necessity of some legislation that would curb the commercialism of game fish. Being an ardent disciple of the rod and reel, he drew up this bill two years ago.

Jack R. Cunningham, President of the Missouri State Division and a former Chairman of the League's National Executive Committee, brought the bill to the attention of national headquarters.

However, at that time all effort was being concentrated on the passage of the Upper Mississippi River Bill and it was thought best to let it go over until the Sixty-ninth Congress convened.

At the opening of the sixty-ninth session the League got into action and a barrage of letters urging support of this measure was laid down in Washington. Outdoor America carried several articles on it and newspapers throughout the country gave the League splendid support.

Since the latter part of April, Charles W. Folds, National President of the League, has sent out hundreds of personal letters and broadsides urging Waltonians to give it their support. The resultant flood of mail, to which any member of Congress will testify, showed that the League is 100 per cent active and that our Chapters are alive to the needs of conservation.

Secretary of Commerce Herbert Hoover, Honorary President of the League, whose work in the interests of black bass is widely known, lent his support, as did Henry O'Malley, Commissioner of the U. S. Bureau of Fisheries.

It first passed the House of Representatives and then was referred to the Senate and passed by it.

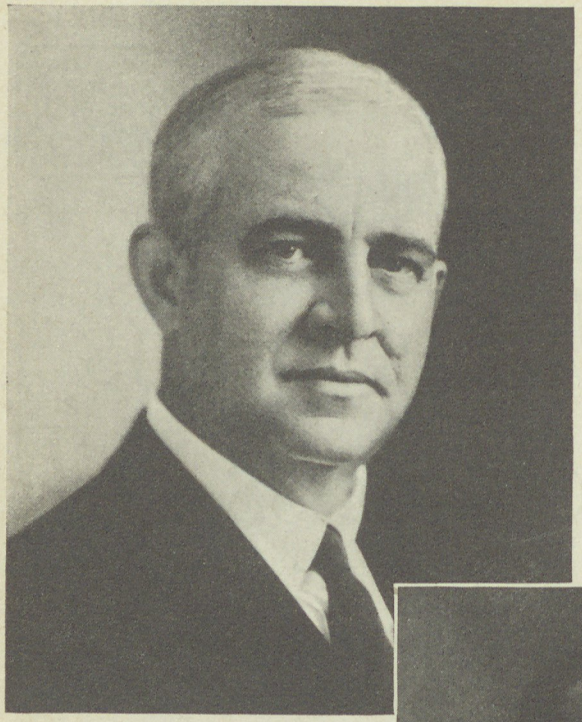
It was one of the first bills signed by President Coolidge.

The Black Bass Bill will aid tremendously in the conservation of bass by assisting the enforcement of state statutes. It is not a violation or usurpation of state authority; it

New Features for Outdoor America

AN amateur photograph department will start with the August issue under the direction of George H. High, of the Chicago Camera Club. Mr. High is himself an internationally famous amateur and has arranged with leading national and international authorities to contribute their advice in the interests of better photography.

El Comancho, whose splendid series of tree stories ends with this issue, is writing another great series on swamps, drainage and its general effect. To start with the August issue.

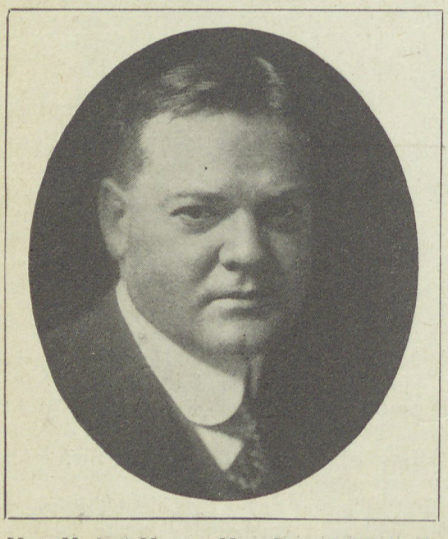


Congressman Harry B. Hawes—Author of Bill.

merely supplements state authority by aiding the enforcement of state opinion expressed in legislative enactment.

It will not prevent the transportation of bass caught or carried by individuals for their own use under the limitation made by the State where procured.

It will strengthen the laws of any state wherein the taking of bass commercially is prohibited. In some states, where such law is now on the statute books, its effect is nullified by the fact that black bass are shipped out of the state in barrels, with rough fish at the top and bottom and the bass in between.



Hon. Herbert Hoover, Hon. Pres. I. W. L. A., who has worked hard for the black bass.

consumption which is denied its own citizens.

As Senator Watson said: "Scientists state that the yearly toll of black bass in this country is so great compared with the yearly hatch that this greatest of American game fishes is certain to become extinct within 10 years unless extraordinary efforts are made to protect it.

"The Bureau of Fisheries, and other scientific bodies, declare that black bass would become practically extinct if not protected while on their spawning beds.

Jack R. Cunningham, President Missouri State Division, who first brought black bass bill to League's attention.

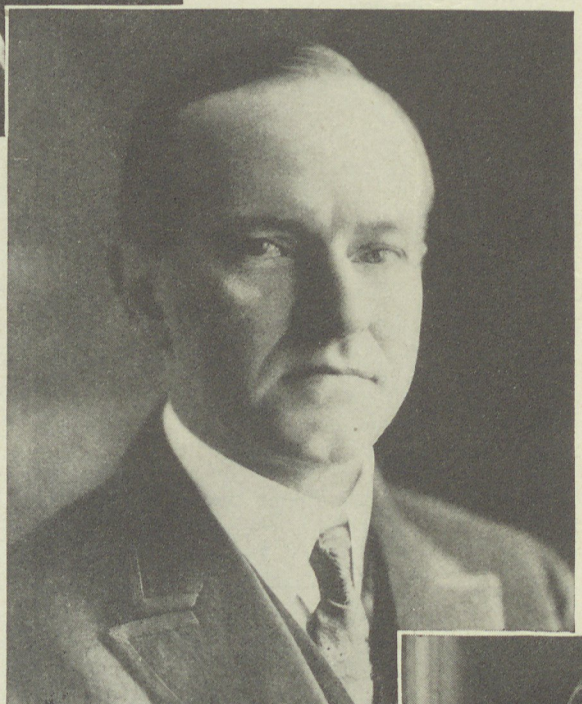
"Scientific bodies devoted to the study of fish conservation, are so aroused over the danger of extinction of black bass that they have repeatedly within the past few years sent letters to our various state governments setting forth the absolute need of protecting black bass during the spawning season.

"The black bass is different from any other American fish. It must select its own spawning bed, and the male zealously guards the bed until the spawn is hatched, and then protects the baby fish and teaches them how to live.

"The bass is undoubtedly the great American game fish and the favorite fish of millions of the rank and file of American anglers. It is found in all American fresh waters, ponds, lakes and streams. It comes from under the firs and birches in the St. Lawrence Basin and in the Everglades under the overhanging moss in Florida and Louisiana."

This measure is perhaps the greatest ever passed in the interest of game fish.

E.H.R.



President Calvin Coolidge.

A state which, for conservation purposes, denies for a limited period the sale of black bass to its own citizens, frequently finds that its state enactments are nullified by bass being taken from the waters of its own state, where its commercial use is prohibited to its own citizens, and transported from that state and sold to the citizens of another state; thus destroying the state conservation program and giving to the citizens of another state the benefit of commercial

Photo P. & A.

Sen. James B. Watson, who introduced bill in Senate.

Seth E. Gordon

Now With League

Mr. Gordon, whose activities in conservation are widely known, will take charge of a special extension bureau at national headquarters of the Izaak Walton League

Seth E. Gordon.

IN keeping with the progressive plans now being made by National Headquarters of the League, Charles W. Folds, National President, has arranged with Seth E. Gordon, of the Pennsylvania Game Commission, known throughout the country for his interest and work in conservation, to take charge of a special extension department here.

The Pennsylvania Commission is a non-salaried, non-political board, which has operated continuously since 1896 with but two executive officers. Doctor Joseph Kalbfus, who became well known to conservationists throughout the entire country, was Pennsylvania's Chief Game Protector and the executive officer of the board from the beginning until August, 1919, when he was killed in a railroad crossing accident.

For six years prior to the death of Doctor Kalbfus, Seth E. Gordon was an understudy and assistant to him. Since his death, Mr. Gordon has been in entire charge of all activities and employes of the board. He was responsible for planning and directing the work, and many of the methods and policies of the Pennsylvania Commission adopted since 1917 were originated by him.

Many of the game laws in effect in Pennsylvania today, which are considered the best in the country, were either drafted or codified by Mr. Gordon, or under his supervision and direction.

When he entered the service of the Game Commission in 1913 the total number of employes was less than thirty, and the annual expenditures were less than $50,000. The organization has grown rapidly and now consists of almost one hundred and fifty regular employes, who are well organized and are said to be securing better results than any other similar force. The annual expenditures are now three-quarters of a million dollars, supported entirely by Pennsylvania's sportsmen through license fees.

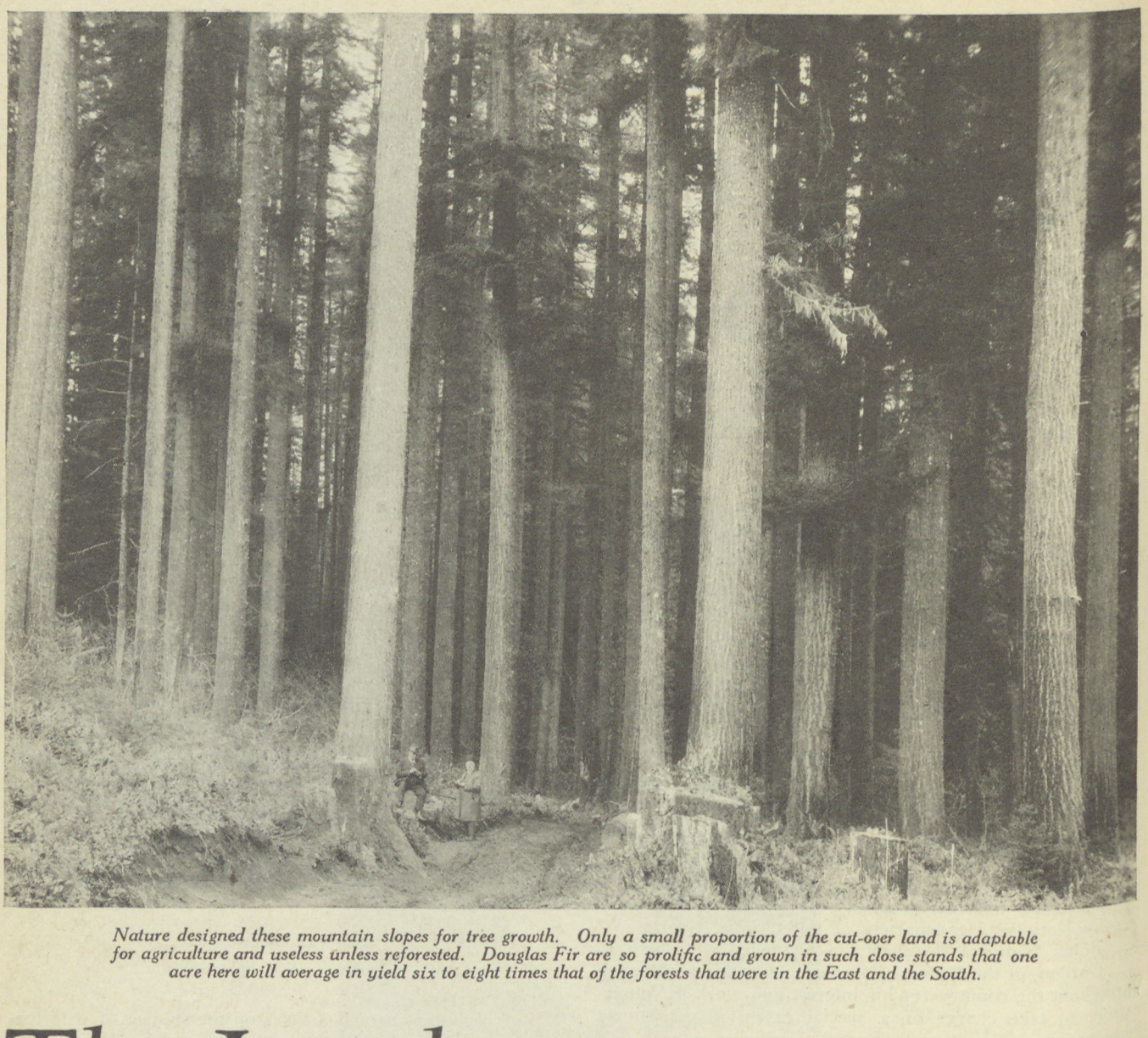
Many publications and articles on the subject of wild life conservation have been written by Mr. Gordon. He has also addressed many organizations throughout the United States on the methods of the Pennsylvania Game Commission, and has given advice and assistance to numerous other state game officials and U. S. government officials.

Mr. Gordon is a member of the Executive Committee of the International Association of Game, Fish and Conservation Commissioners, and a Vice-Chairman of the National Game Conference. He is acquainted with most of the game and fish officials throughout the United States, and is known to many thousands of sportsmen because of his activities and Pennsylvania's lead in conservation work.

He can give expert advice on game laws, game administration and management, the establishment and maintenance of game refuges, public shooting grounds, vermin control, game restocking, game feeding, relations between sportsmen and landowners, and other phases of the conservation problems confronting the people of the United States.

Mr. Gordon is a native Pennsylvanian, and lived in the country and helped his father conduct a farm and milling business until he became a teacher in the public schools of that state. Later he accepted a position with the Pennsylvania Steel Company, where he secured additional valuable business training. Since August, 1913, he has been employed continuously by the Pennsylvania Game Commission in which service his progress has already been noted.

Mr. Gordon is married and the father of a son fifteen and a daughter eight. He will move his family to Chicago and make "The Windy City" his future home.



Nature designed these mountain slopes for tree growth. Only a small proportion of the cut-over land is adaptable for agriculture and useless unless reforested. Douglas Fir are so prolific and grown in such close stands that one acre here will average in yield six to eight times that of the forests that were in the East and the South.

The Lumberman and Conservation

This article gives the lumberman's side of forest conservation. Mr. Schott is associated with The West Coast Lumber Trade Extension Bureau

By HENRY SCHOTT

"WE are seeing the last of our great forests. What isn't falling before the axe goes by fire. In only a few years there will be little or no commercial timber left for the use of the American people. We shall have a lumber famine."

For more than twenty-five years that has been a popular theme for writers and speakers throughout the United States and those statements have been accepted almost literally by the public. What was said about the lumbermen was limited only by the degree of feeling or imagination of the speaker or writer. The timberman was a destructionist, a vandal, one who really delighted in hacking away a great national resource. A forest fire was considered by him as something that had to be and over which he had no control; his only feeling about it was that it gave him fewer trees to cut away.

Almost any writer treating that subject could find some periodical to print it; any speaker with that message would not have to make great effort to be invited to appear before a public body and tell his harrowing story. In other words, it was a popular subject with an audience always at hand. Today there are millions of American citizens who really believe that the forests have disappeared or are about to go and that good lumber has become almost a rarity.

When I came to the Pacific Coast some four months ago my business necessitated my making an investigation of the lumber industry, particularly in Oregon and Washington. I came with an open mind and am free to say that I was under the impression that within twenty years or thirty years the great forests here would be a thing of the past; that which might escape the axe would be destroyed by fire. I had heard the speeches and read the articles of over those many years and they had left their impression with me.

What I found was that the lumber industry in Washington and Oregon and in Northern California, an area containing the largest forest in the United States, was being operated on a policy that it would be a permanent industry and not one for thirty years or fifty years or ninety years; that here forest operations were being conducted on a basis to give the people of the United States a permanent lumber supply.

I was told, and I believe it would be found true if susceptible to proof, that there is more fine commercial timber standing today in the States of Washington and Oregon than there ever was in that great American forest once covering New York, Pennsylvania, Wisconsin, Michigan and Minnesota. Where in those forests, five or six thousand feet per acre was considered a normal yield, these forests of the West Coast average nearly 40,000 feet an acre and some of them yield as high as 150,000 feet. One tree may have as much lumber as an entire acre in the old Eastern or Southern forests.

Forest Service Fire engine with 300 gallon tank mounted on a truck. This, of course, also is intended to pump from streams or lakes. Its sole purpose is for use in forest fires.

Instead of finding an industry made up of devastators and wreckers of natural resources, I found every progressive lumberman—and they constitute the large majority of the operators—spending his time and his money in creating organizations to make the industry a permanent one both by means of reforestation and fire protection.

Then came the question of fire. I have been a devoted advocate of conservation of natural resources almost from the time when I was able to read about it. If these men here were going to preserve their forests what were they actually doing toward fire protection? Here again I was surprised—I might almost say disappointed in my enthusiasm for conservation. The actual fire losses of merchantable timber in the state of Washington, and these figures hold true even to a greater degree of Oregon, over a period of ten years, were 1/60 of 1% annually—not 1/6 of 1%, but 1/60. Comparing those with the commercial fire losses in cities, they probably would not make a bad showing.

The Federal government owns more than one-half of the forest area of the Pacific Coast, while the states own about two per cent.

Here came an encouraging discovery. I had thought of the Forestry Service and the lumbermen as natural antagonists with the forester acting largely in the nature of a policeman to watch the timber owners. On the contrary they work together as if one in their efforts to protect the forests; the lumberman believes in and supports the forester in his work and the forestry agents have complete faith and give approval to the timber owners' plans and methods.

Here is an example of Douglas Fir reforesting itself. Eighteen years ago this land was either logged off or burned over. By keeping fires out of the seedlings this new growth resulted. In thirty years it will be fine merchantable timber.

While the Federal government, the states and the associations of private forest owners cooperate in protective methods, the Federal government and the states together pay 27c of every dollar expended for this service, and the private citizen pays the 73c. The private citizen here is the same lumberman who is so often the subject of criticism on the part of the well-intentioned writer and speaker on conservation.

In a public address right in the heart of the lumber country, a speaker told of suffering on seeing smoke from the forest fires hanging over the mountain sides, knowing that it meant the destruction of thousands upon thousands of great trees, some of them hundreds of years old. What this well-intentioned person had really been observing was the burning of refuse and slashings by the state, Federal government and the timber owners in order to avoid real fire danger.

These three organizations cooperate as closely together as if they were one institution. Every logging camp of any importance has its own fire warden whose sole duty is to guard against fire danger. A part of the camp equipment is a hygrometer which registers the changes in relative humidity in the atmosphere. There is a well known danger point and the moment a decided movement in that direction is recorded logging operations in the camp are stopped and many of the employees automatically become *(Continued on page 36)*

Free

Sometimes a little patience will make a real believer in conservation out of a "game hog" who does not understand the rules of the game

Illustrated by

I *AM* not a particularly good student of American history. I can't remember which one of the important documents contains the saying, but I do remember that at one time or another this nation subscribed to the fiction that all men are born free and equal. We've been trying to prove it ever since. The main trouble seems to be that the statement covers too much territory. It was made at a time when nobody ever figured that we would have in this country any persons except those who were born here, and the trouble we've been having is trying to make it stick regardless of the locality of the nativity.

I am heartily in favor of amending whatever document it is that contains this wise crack, and making it read "born in America." And it took our river to point out to me that this amendment is far more important than the Eighteenth. This really should be Milton's story for it was largely his party, his and the keeper, Cupid's, but just to prove my point I am going to tell it anyway.

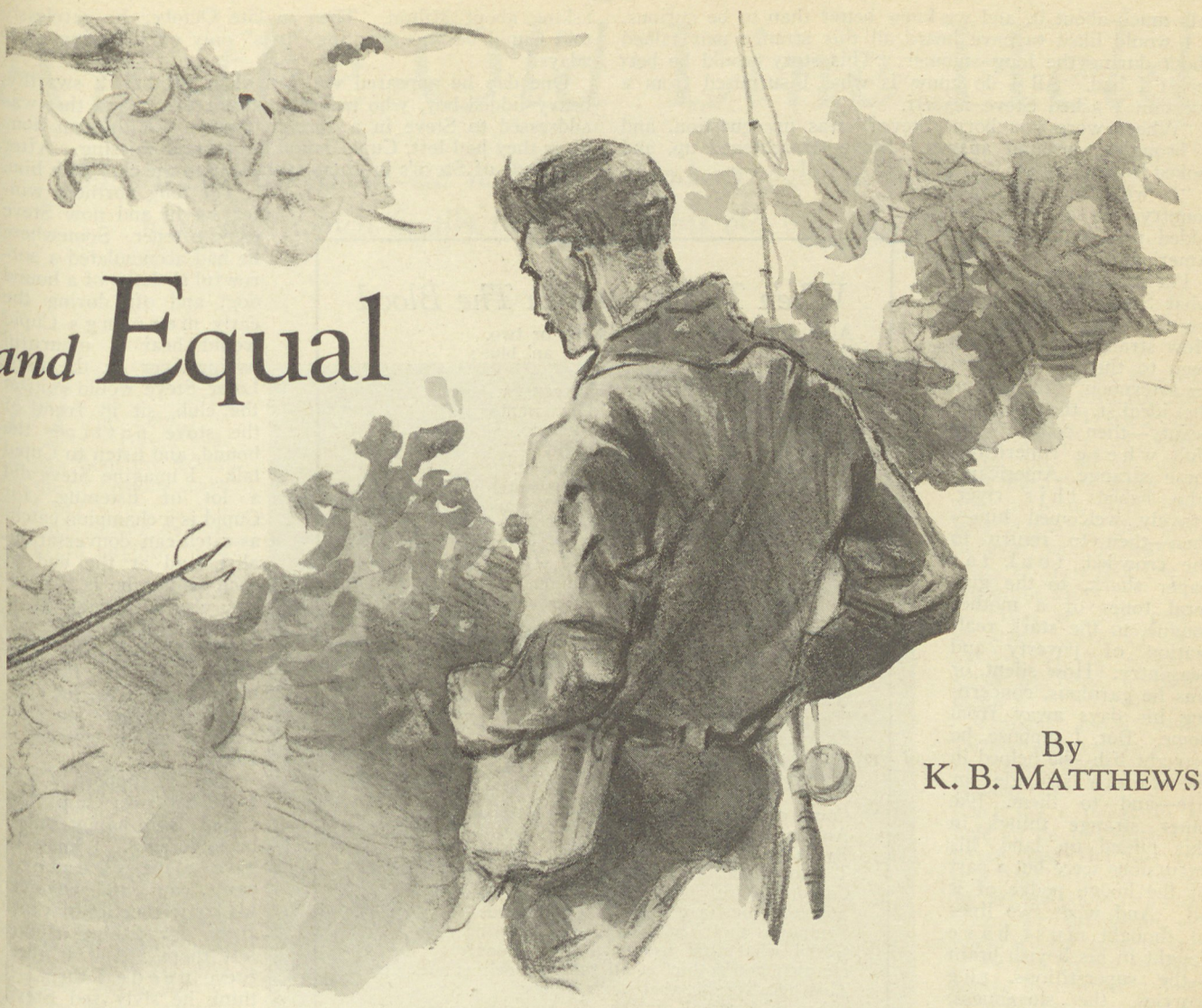
It was Milton who first discovered Steve. It is usually Milton who discovers anything new along our river. He has a habit of fishing alone, just sort of drifting along, making less noise than a feeding mallard, and drinking in the beauty of the river. It is always Milton who knows first where a hen partridge has her nest, when the downy woodcock babies first wabble forth, where the cedar wings have found the first tree of ripe wild cherries, and all of the woodland gossip that comes to the silent listener and watcher. Only this time what Milton found was more hateful to him than seeing a fox find a partridge nest. For when Milton first found him, Steve was peering down into a big hole with a heavy spear poised ready for murder.

As a matter of fact I think Milton saw the spear first. Such a thing would attract his attention, and then the weapon was just about twice as big as Steve. Milton did about what you would expect of him. Going through the water like a mink, he sneaked to the bank, laid down his rod, crept through the alders like a blue racer and with much less noise, and quietly collared Steve and the spear. Now most of us in this position would have promptly heaved both spear and Steve into the hole he was studying —but Milton isn't like the most of us. Still holding on to Steve, and in a quiet voice, Milton started to talk to him.

I never could spell Steve's last name. Since the inception of the League of Nations my pronunciation of European puzzle words, meaning a town of some kind, has improved, but not to the point where I could master Steve's name. I know it was made up largely of Zs. Steve, together with the rest of his family, consisting of a father, mother, two sisters and three older brothers, had but recently moved to our part of the country, putting all their savings into forty acres of jack pine land and honestly believing they could make a farm out of it. Originally Steve's father, mother, brothers and sisters had come from some little town in that country that divides Russia from diplomacy, and Steve's father had headed straight for the steel mills. In the smoky Illinois town Steve had come, born to be free and equal. Then, with the peasant blood driving them back to the land, some Chicago shark had calmly pocketed the money sweated out of the mills, and given Steve's father a deed to forty acres and a certain recipe for poverty.

That spring they had moved in and had already cleared

and Equal



By
K. B. MATTHEWS

John Thoman

When Milton first saw Steve, the latter had a heavy spear in his hand waiting to plunge it into a Rainbow.

a few acres of jack pine. All of them lived in a slatternly tar paper shack, looming ugly against the background of the tired green of the straggling jack pines. A poplar pole barn, gaping with cracks and covered with a marsh grass roof, housed a broken down horse and a wondrously thin cow. The yellow scar of the few acres of plowed land, mostly wind teased sand, completed the estate.

About the first thing they discovered was our river, and they promptly applied to it our other national fiction, "land of the free." Had our river been in the land of Steve's forefathers it would have been carefully avoided. No peasant would have dared take the beautiful fish from such a stream, but here in this country where Liberty has a dozen different meanings, the river was theirs, and the fish in it were "free."

When Milton first found him, Steve had spent thirteen years trying to be equal. The quality of his air and his food had prevented him from attaining that stage physically. He was even small for thirteen years, so small that he could not guide a plow or swing an axe, so Steve was handed a heavy spear and told to go and get the free fish that his elders might eat. His first attempt to establish his equality had proven disastrous and even then he was telling Milton the facts I have given you.

I don't believe that Milton has a temper. Or, at least, he has the patience of a turtle. He didn't cuss Steve out, didn't take his spear away from him; didn't send him home with dire threats; he just sat and talked with him. First he talked about the fish. Poor Steve—he didn't know a trout from a mackerel. In his home, fish were fish, and Milton opened his creel and showed to wide-eyed Steve the beautiful trout that lay within. Then he talked about the river, as only Milton can talk, and he told Steve tales of it in the old days. As for Steve—he sat half afraid, half wondering. This man was different from any he had ever known. This American was different from the grouchy watchmen who used to chase him off the wharves in the steel town he had known. Why this American hadn't even called him a Polack. Then Milton talked about fishing. He didn't cuss out the spear—he just said there wasn't much fun in that, and he described the kick that comes out of taking them on a line. He showed Steve the tiny flies; let him feel the whip of the rod and tug on the thin leader.

It was nearly sundown when Milton quit talking. Steve, by this time, was worrying a bit about the fish he was supposed to produce back at the tar paper shack. I guess Milton sensed that, for he gravely shook hands with Steve, gave him all the fish in his creel, and promised to meet him at the same place the next afternoon.

That started the strangest friendship I think our river ever saw. As often as Milton was at the club he would meet Steve, and just as often Milton returned to the club without a fish. It wasn't long before Milton was fixing up an old rod, but I think it was a month before any of us saw the two together, both in the stream, Steve in overalls, soaked to his chest, and Milton counting loudly so that Steve would give his back cast time to straighten out. Before another month both of them had fished clear to the rapids in front of the club and Milton brought Steve inside, solemnly introducing him, and then sent him home with the fish from both their creels. But Milton didn't

talk much about it, and we knew better than to be curious.

I would liked to have heard all this strange pair talked about during the long summer. This story would be better if I had. All I do know is what I surmised from a question I asked Steve myself.

"Where were you born, Steve?" was my question, and it brought a prompt answer. Steve straightened up, and looked square at me.

"I was born in this country," he said, and then added proudly, "I am an American."

I'm still curious to know what Steve's thoughts were during that summer. How strange it must have been to the lad to spend an afternoon with Milton, the idealist, the lover of beauty—then come to the club where Americans, these strange Americans, who fished this river, gravely welcomed him—then—then to return to the crowded, foul, tar paper shack, to the gutteral tones of a mother tongue, to the stark realization of poverty and peasantry. How silent, or was he garulous, concerning his days away from home. But, I suppose, he brought fish—he helped in the weary struggle for life—and to them, like other strange things in this mixed up land, his excursions were but a part of the hodge podge of it all. And what two lines of thought must have fought in his boyish brain—the superstitions, the worries, the slovenness, the ignorance of his family—and the strange pleasures, the inexplicable courtesies, the order and cleanliness, the thoughts and habits of we who met him as one of us because of Milton. I wish I could have known all of this—all I do know was that being an American—and being proud of it—proud even beyond his own family—had taken firm root.

The summer drew to its close, and we drifted away, leaving Cupid to guard our playground. Yet before we went, Milton, Steve, and Cupid talked long together, and Milton stayed after the season closed. Then Milton left, and what happened from then on I know only from what Cupid told me.

With the close of the season, Steve quit fishing, and appeared one morning with an ancient single barrel shot gun. Through the colorful fall Cupid saw but little of him, save occasionally when he passed going down river, or sidled through the poplar flats, always carrying the old shot gun. Once in a while he would drop in at the club, saying but little and merely asking about Milton. Then in late October he carelessly told Cupid he was shooting "pats" only on the wing nowadays.

One day he appeared with an older brother, a swarthy, heavy lidded boy, who made but one remark, and that was addressed to Steve in a foreign tongue. Within an hour after they had left, Cupid found his tobacco missing. After that none of Steve's brothers ever came to the club with him.

The long northern winter set in and now Steve came oftener. Somewhere he had accumulated a sorrowful skeleton of a hound dog, and oft during the early mornings Cupid would hear a mournful baying over on the flats. Later Steve would stop at the club, sit in front of the stove patting the hound, and listen to Cupid talk. I imagine Steve did a lot of listening, for Cupid is a champion catch-as-catch-can conversationalist, and at the end of each winter he is a nervous wreck through being silent. But now he had a listener, and I imagine Cupid told him the history of the river, the club, and each member since the apple eating episode in Eden.

And I suppose Cupid fussed over him, too. Cupid isn't happy unless he is fussing. I knew he gave Steve sweaters, pants, caps, and whatever his conscience let him take from our fishing clothes left there. And I guess Steve needed them. I think he slyly fed Steve, always being just about to have a "snack" whenever Steve would appear. Even the mournful hound grew plump. What went on in the tar paper shack I can only guess at, but Steve spent more and more time at the club, and quit shooting partridge when the snow came and the law went on. Rabbits were getting scarcer as the snow deepened, and the cold became more bitter. Steve hunted longer, and now, occasionally when he would appear at the club empty handed, he would spend the night with Cupid.

The long winter wore on, and now the chickadees went crazy. The first geese honked high overhead, and the first merganzers preened their feathers on the swelling river. Gradually the snow softened and disappeared on the ridges, and the water cress sent its tiny leaves up in the spring waters. Steve hunted no more, but spent much of his time around the club, listening to Cupid and pouring over the magazines we always sent there. The run of rainbows started, and *(Continued on page 49)*

When The Fever's in The Blood

Ain't felt right pert for a week or two,
Been sorter cranky an' restless an' blue;
No p'tickler reason, as I ken see,
Can't find anythin' specially wrong wi' me;
Jes' don't feel frisky an' don't wanter do
A goldarn thing thet I don't hev to.
Food don't taste jes' 'xactly right;
Sleep is kinder broken up at night.
Don't wanter set still, an' don't wanter walk,
Don't wanter keep quiet, an' don't wanter talk.
Nothin' t' hinder me from doin' jes'
Th' very thing thet'll suit me bes';
Yet when I'm doin' jes' what I wanter to,
I find it's jes' what I don't wanter do.
Now I wonder what's th' matter wi' me, by thunder?
'Tain't fever, sure—fer my heat ain't riz;
'Tain't biliousness, ner rheumatiz;
'Tain't my head, fer I think right smart;
'Tain't my liver, ner yet my heart;
'Tain't stomach, ner gout—then, goldarn me,
'Tain't nothin' at all as I kin see.
En yet it's somethin'—guess I'll go
An' see th' doctor—he'll sure know.

Seems t' me I remember this very same thing
Come on about this same time las' spring,
An' the doctor doped me with nasty stuff
By th' gallon, an' I bought drugs enuff
T' start a store, but, Lordy, they
Couldn't drive that gnawin' inside away—
Somethin' jes' a-gnawin' at my innards—th' same
Symptoms thet I had when th' las' spring came.
Gosh! what's th' use o' seein' th' doc?
He ain't got nothin' et all thet'll knock
This here trouble thet allus comes
When th' birds all sing an' th' honey bee hums,
When th' ice breaks up, an' th' streams all roar,
An' th' soft air blows through th' open door,
When th' vi'lets come, an' th' grass blades sprout,
An' th' sun gits warm, an' th' buds break out.
Lemme tell you this—when th' world gits green,
An' a feller gits ornery, restless an' mean,
Thar ain't no doctor in any place
Es kin properly diagnose his case.

Th' only cure for a man I know
Is t' get right out o' th' town an' go
Where th' wil' ducks swarm an' th' geese go by,
An' th' trout an' bass are a-jumpin' high.
Th' only thing thet'll cure him then
Is t' git away from his feller-men
An' loaf all day by some laffin' stream,
An' fish and whistle an' sing an' dream
An' listen t' birds an' bugs an' hear
Th' voice o' th' woods in his eager ear,
An' smell th' flowers, an' watch th' squirrels,
An' cast a fly where th' eddy whirls,
An' fergit that there's cities an' houses an' men,
Fergit thet he's got ter go back agen,
Fergit, when on moss-grown bank he's curled
Thet thar's enythin' else in th' whole wide world
But jes' him, an' th' birds, an' th' bugs an' things
Thet live right thar where th' wild stream sings.

—*Selected.*

An' the Old Line Held

Silas was a fisherman—a real one. Had struggled along under some hard luck which finally broke when his old line stood the test

By "TOWHEE"

"MORNIN' Silas": "Mornin' Lem": "Hain't ever told you 'bout my fishin' trip up to Perkins Lake hev I Si?"

"Don't cal'late as how I've heard anythin' 'bout it yet Lem."

"Want to know? Wal one evenin' last spring some of us fellers were sittin' in Bill Hoskin's store, talkin' 'bout ketchin' fish an' things, an' say, by heck 'fore I knowed it, that there conversashun got under my hide an' I got real fishin' fever.

"Went home that night an' hunted all over the consarned place for a few old fishin' hooks an' a old line that I guess I'd had fer nigh on to ten year. Gosh I musta spent two hours lookin' fer them things, must 'a been near onto nine o'clock when Sarah hollered, 'Hay Len, 'aint ye ever comin' to bed?' 'Naw, mother,' sez I, 'I'm goin' fishin'.

"Wal say thet piece of informashun hit hard, or ruther Sarah hit hard when she lit on the floor. She grabbed the lamp an' cum out in the room a' holdin' it in my face with a look on her countenance that said as plain as preachin', 'Lem Wheatley hev you gone clean crazy, or just lost yer mind? You never ketched a fish in your hull wuthless life that amounted to a pickyune.'

"'Now see here, Mother,' sez I, 'you know thet every dog hes his day an' tomerrer might be mine.'

"Wal I got up next mornin' at four o'clock, dug a can of worms while Seth Crandell held the lantern, Seth must uv staid up all nite fer he was settin' on the back stoop a'waitin' fer me when I got up. We hed a light rain in the night an' the worms were all layin' clos' to the top so we got a lot of good ones in a short time, hitched up old Bob an' started. Landed at the lake 'bout daylite an' 'Gosh all Hemlock' what a mornin' fer a full blooded man to be out, gol darned near come forgettin' what we were there fer, with lookin' at the break in the clouds 'cross the lake where the light from the sun was tryin' to peek thru the soft fleecy clouds thet were left hangin' over after the rain. Several mallards as a pair o' pintail ducks were floatin' 'round out on the bayou where the water was smooth as a lookin'-glass 'cept'n fer the ripple the ducks made.

"Mornin' Silas."

"Some pitcher to cast yer eyes on thru the tall spruce thet lined the bank. While we were takin' this all in, over near the other shore, up goes a loon, flyin' the hull length of the lake hollerin' like he was as crazy as Maw thot I was the night afore.

"'Wal,' sez Seth, 'goin' to stand thare all day gawkin' at the scenery stead of doin' a little fishin'?'

"'Shaw,' sez I, 'Seth I'v hed my moneys wuth ef I don't ketch a gosh-blamed fish, only if I don't it's a dollar to a hole in an old shirt I'll never hear the last of this fool trip up there fer nothin' as Maw'l say when we git home so guess it's up to us to see if we can git out of this scrape by teachin' a few of these pesky worms to swim.'

"Wal Silas, we cut a coupla poles in a poplar thicket, trimmed them up, wound our lines 'round the end, put on a sinker an' a cork, bailed out the old flat bottom boat thet hed been left on the lake as everybody's property, paddled out to the end of a tall elm thet hed fell into the lake, tied our boat to the top, and after lightin' our pipes, strung on a worm, spit on it fer luck an' tossed it in.

"Wal now, fer a few minits we ketched perch and blue gills 'bout as fast as we could bate up and pull them in, then all to onct they let up bitin'. Seth sez, sez he, 'What in tarnation's matter'?

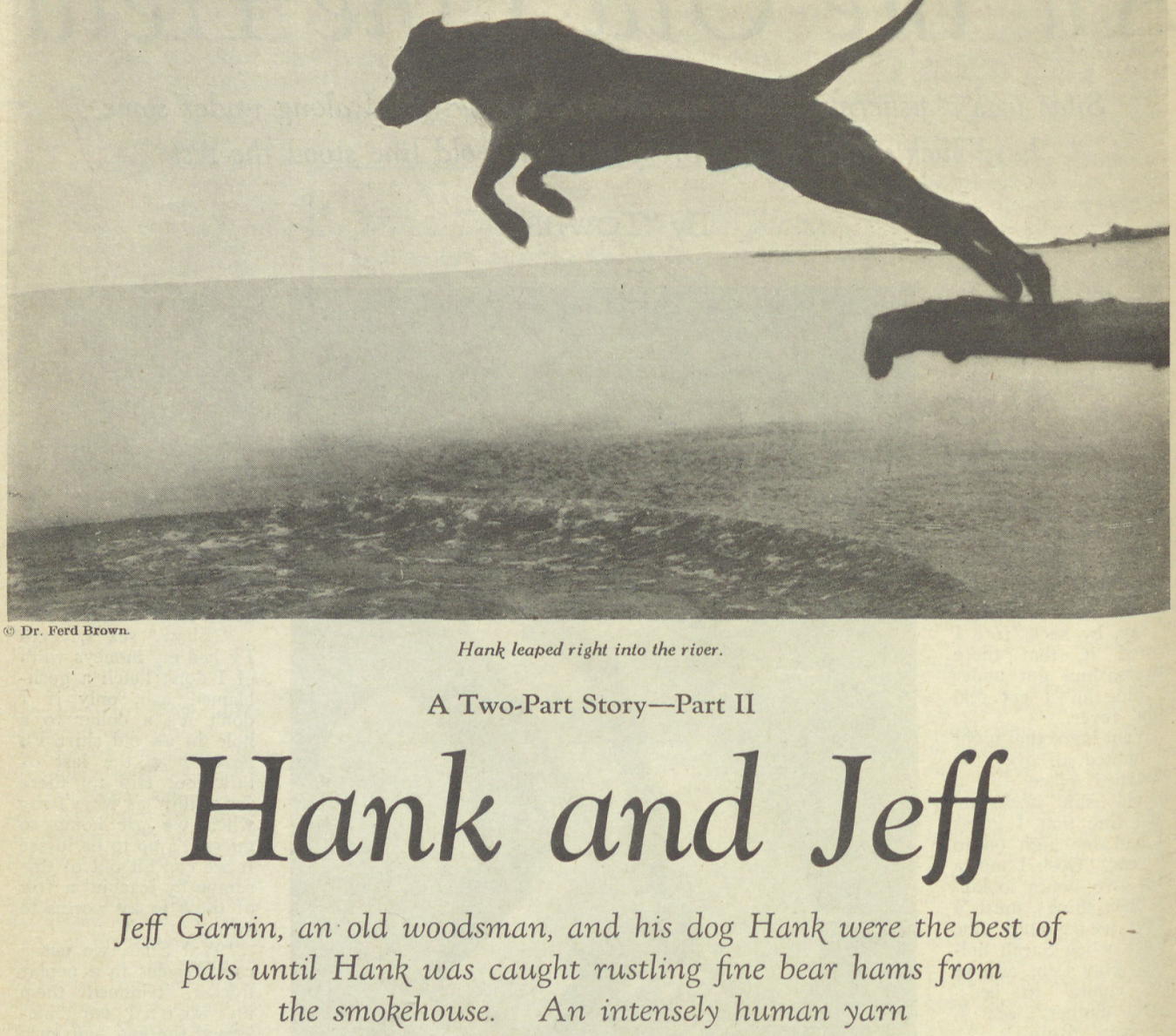
"'Never can tell Seth,' sez I. 'Maybe a shark's foolin' around down there an' scared 'em all away.' 'Wal,' sez Seth, 'if you think thar's some big ones in here, why don't you put on more temptin' bait an' go after 'em'?

"'Just how would you do that Seth,' sez I.

"'Wal,' sez he, 'put on a big gob of them worms. If one worm gits the little ones, a lot of 'em oughter ketch the big ones.'

"'All right Seth,' sez I, 'you bait up thet way an' I'll just put on one nice one, stringin' it on so's to make it look nice an' natrel an' we'll see who'll get the big one.'

"Wall we got that out of our system an' throwed our bait overboard an' waited fer results, Seth kiddin' me all the time we wuz waitin,' 'bout my sun-fish bait. All to onct Seth's cork started under *(Continued on page 72)*



© Dr. Ferd Brown.

Hank leaped right into the river.

A Two-Part Story—Part II

Hank and Jeff

Jeff Garvin, an old woodsman, and his dog Hank were the best of pals until Hank was caught rustling fine bear hams from the smokehouse. An intensely human yarn

By ERNEST THOMPSON SETON

Author of "Wild Animals I have Known," etc.

THE dog reached humbly forward and ventured to lick the hand. At once it was withdrawn, and the hunter sat up. Growling harshly, "You traitor," he gave the dog a fierce kick. With no sound but the involuntary gasp, the hound crawled out of the door, then raising his muzzle, he howled the mournful death song of a dog that knows he is lost.

Garvin lay in silence for an hour, then glancing at the sun streak on the floor that was his clock, he rose, took his rifle, slipped a bundle of meat into his wallet, and stepped out. Hank was sprawling with his noble head humiliated in the dust. He raised his big brown eyes, and moaned. He did not raise his head or wag his tail.

"Come on here, you traitor," said Garvin savagely, and away he marched for four long hours with his humbled partner following far behind.

At last they reached the Ohio River, and the steamboat landing. The "General Jackson" was swinging in to get wood. He had counted on this. The negroes were hard at work, carrying in the cord sticks. On the upper deck were travelers, well-to-do planters and their families. A tall Southerner, leaning on the rail, marked the picturesque group of the skin-clad hunter and the superb dog. He said, "That's a fine dog you got, my friend."

"The best b'ar hound in all Kentucky," was the answer.

"Will you sell him?" said the planter.

"No," said the hunter savagely.

"I've taken a fancy to him. I'd give a big price."

"Not for any price," was the answer.

"I'd surely love to have him."

The hunter glared across the river in silence for a time, then abruptly said:

"Would you be good to him?"

"Yes. I'm a sporting man. I love a good dog. What'll you take for him?"

"I won't sell him," growled Garvin with savage finality. "But, if you'll be good to him, I'll *give* him to you."

The planter was surprised, but the dog was tied and led up the gang plank.

"My name is La Pine of New Orleans," said the planter, with an air of one whose name is a guarantee of honorable behavior.

The steamer swung out. High on the upper deck was Hank near his new master. With his back against a snubbing post, stood Garvin gazing as the open water widened between him and his dog. The old hunter's face writhed in an inner struggle, his eyes were blurred with tears so he could not see much; but he could hear, and the long agoniz-

ing wail that came from that upper deck went through his very soul.

He waved his arm to sign "Come back." He shouted, "Let him go. That's my dawg." But the steamer swiftly sped away.

He turned and traveled now as he seldom had before through the down stream woods. He knew that twenty miles away was another wooding dock. The steamer had to make forty miles to reach this point. He spared himself not at all. He covered that rugged twenty miles in little over three hours. As he came worn and breathless and feebly shouting down the hill, he was just in time to see the "General Jackson" swing away with all the wood she needed.

The river boys thought him a madman when they heard him. But the familiar explanation, "He missed the boat and got mad about it," was enough.

"Where do she dock next?" was his question when he was calm enough to ask.

"She don't dock till she makes Memphis now," was all he could find out.

He went back to the cabin broken-hearted. He tried to think it would blow over in a month or so. He would get another dog. Then the notion of that was loathsome. "There ain't any other dawg," he told himself and hid his real feelings in mere foul language.

He stuck it out alone for a week. One bright morning, he girded up his thin loins and set his long hunter legs striding till he came to the trading store. He had brought what furs he could lay hands on, and everything that promised a little ready money. But his plans were vague.

He sat silently smoking by the open fire till Culberson, the trader, was unoccupied, and sat down at the other side of the hearth.

"Say, Jack," said Garvin, "when do the 'General Jackson' come back this way?"

"Heh," said Jack. "You ain't up to date. She won't come back never."

"What?"

"Ain't you heard? She struck a sawyer the night after she left here, just below Memphis, and was lost with all aboard. Not a soul saved but the darky cook."

Garvin stared stupidly. Then in a cold way, said, "Wished I'd been aboard her."

His unspoken purpose had been to go to New Orleans to seek out his dog, and now the blankness and futility of everything was stupefying.

He had no plans. He could not live his hunter life without a dog, "and there ain't any other dawg." He hated the thought of his desolate shanty. He hung around the "Corner" which, with the trading store, the saloon, and one or two houses, constituted the settlement. After a month, his cash was gone and his credit in danger.

He sat about, gloomily silent, or muttering to himself. The men began to avoid him. He was pointed at as having "something on his mind—likely killed some one."

It was in the second month of his loafing that Culberson said, "Jeff, why don't you take a job? They want a mail carrier to cover the forty miles between Carrolton and Frankfurt."

Tramping the lonely woods with a mail sack was more to his taste than steady labor. Thus it was that Garvin made the weekly trip, and thus he came to hang around Carrolton docks, and at length to hear much about the sinking of the "General Jackson."

"No, sah. They wasn't all drownded. There was one man as had a big dog. That thar dog shur toted 'im ashore."

"What did you call him?"

"Pine or Lavine, or something like that."

"An' went on to New Orleans?" said Garvin, with interest that almost scared the negro. "Ah don' know. Ah s'pose so."

He went as a deck hand, but in two weeks Garvin was in New Orleans. The name La Pine was slowly sufficient. He stood at last in a big house to be kindly received by the tall planter.

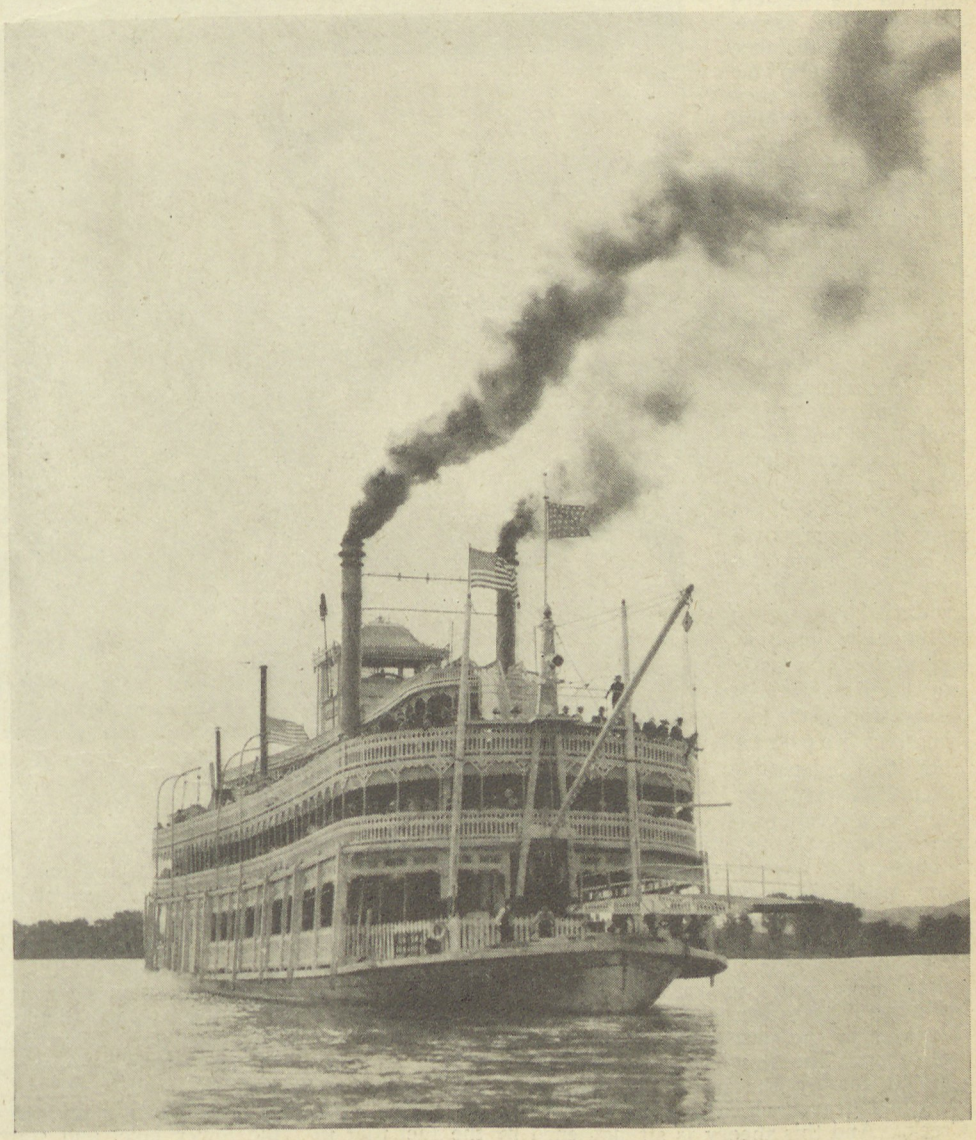
"Whar's my dawg?" was the blunt opening.

Then he heard a simple tale. The sinking of the "General Jackson" was all too true. Every passenger but one was lost. La Pine's big dog had safely borne him down the midnight flood to a friendly shore.

Arrived in New Orleans he was made much of by the children, and responded to their friendship, but many times they missed him and found him again down by the docks watching some steamer come in, or howling as it sped away.

Two months went by. Hank was an established member of the family, loved by the children. Had he not rescued their father from death? And less often now he went to the dock front to wail.

But one day a hamper arrived *(Continued on page 73)*



The "General Jackson" steamed up the river.

Golden Trouting

The high Sierras offer much in the way of outdoor sport. This deals with that interesting individual, the Golden Trout

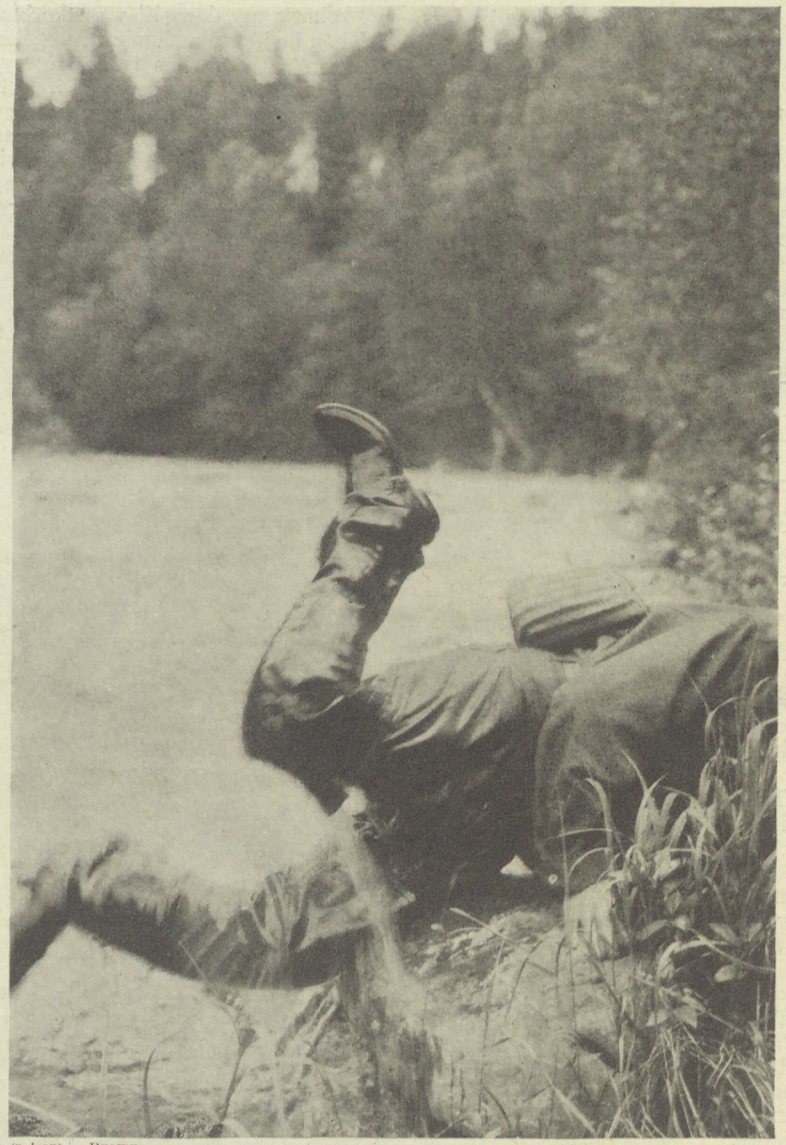
By CLAUDE M. KREIDER

PROBABLY every real trout fisherman throughout the country has at some time heard tales of this unusual trout which was first known in a tiny creek in the southern Sierra Nevada range, in California.

First called Volcano Creek, and later, Golden Trout Creek, this little stream rises high on the western slope of the range, flows for a distance through an alpine meadow region, then loses itself in a long series of mighty plunges, as it joins the Kern River.

First reports of the Goldens were vague, and were given little credence. It was an impossible fish, surely, which had all the Rainbow's characteristics, including gaminess, but was of a bright golden color. The idea seemed preposterous, beyond reason. One could not imagine a more vividly colored game fish than the Rainbow Trout.

But soon men of unquestioned veracity and keen powers of observation made affirmative reports. Then this impossible trout was accepted. Imagine a very brilliant Rainbow Trout, vivid rainbow along the sides, and all.



© Bert L. Brown.

Just by way of variety.

There, you have a very deeply colored Rainbow Trout. Now, let the lower part of the body be a rich, bright gold —that of a new coin—the fins and gill covers orange, traced with white, and you have the Golden Trout as he really is, or as nearly as I can describe him.

For many years it was thought they would lose their brilliance if transplanted to other waters, but this has been disproven by the successful stocking of many other streams and lakes. The wonderful coloring is, very logically, accounted for by the bright, yellow color of the volcanic sand and gravel which forms the bottom of Golden Trout Creek. And this theory is strengthened by the fact that in all similar waters to which transplanted, the Goldens have remained the same, while in streams flowing through a darker formation, the trout have reverted to nearly the ordinary Rainbow type.

All this, we learned later. At first, we tried to trace various vague reports. We heard of Goldens up to six pounds in weight being taken in Cottonwood Creek and Lakes. This lake group lies in a 10,500 foot basin on the east slope of the range, just below Mt. Whitney; and we couldn't reconcile these reports with what we had heard of the little ten inch fish on the other slope of the range. Goldens were not supposed to grow more than a foot long. More fish stories—and too much camp liquor, we said.

But, we waited the passing of a long winter and spring, then packed up the car and drove a long day across the Mojave desert to the foot of the range, at the mouth of Cottonwood Creek. We procured pack animals there, started up the canyon, stopped at 8000 feet for a rest, and caught a mess of Goldens for lunch. They were there, gamy, iridescent, astounding little fish. That night we camped in a long stringer meadow, along the upper reaches of the creek, and took more of them. They rose avidly to the fly, and fought hard. We now believed.

Cottonwood Lakes, which feed the stream, are five in number, and lie in a very bleak, granite walled basin. Under the north slopes of the talus slides, clear down to the lake shore, the snow often lies all summer. There is very little vegetation, other than stunted tamaracks and hair grass, and the lakes do not look fishy. Often, at noonday, a breeze sweeps down which will chill blue a hand which is wet.

We camped in the heavier timber on the creek just below the lower lake, and started fishing with some misgivings. Flies were no good. Spinners, also, failed. We descended

to the plebeian live bait, and immediately caught fish, lusty, fat, Goldens, as gamy as the best of the Rainbows, and not a fish under a pound weight.

Later, we fished the upper and larger lakes, and took them up to three and a half pounds weight. We saw other fully twice as large, swimming in the deep clear water, but could not attract them.

In these lakes, as in all other Sierra Lakes I know, conditions are variable from day to day. Yesterday, we found them rising well to flies from seven to nine in the morning, then retiring to the depths for the day. Today, not a riffle could we bring to the surface, but, during the hours of bright sunshine, deep fishing far out, with our live bait, we landed fourteen Goldens in an hour, and those fish weighed twenty pounds.

Poor sport, the fly purist may remark; but remember the frailty of a five ounce fly rod, a fine leader, and a number ten hook. Also, I used no net, but towed each vanquished fish to a tiny strip of sand.

And here is a real fishing secret, for high mountain lakes. When nothing else will attract them try a small, dark fly, weighted, and cast well out, then reel in by short, slow jerks.

Later seasons we searched out other haunts of the transplanted Goldens, and made long pack trips further up the range to lakes and streams little known.

The state Fish and Game Commission had, of course, made many plantings to waters that seemed favorable, and which were barren of other trout. Many of these streams and lakes we fished, successfully and otherwise.

There is Tyndall Creek, a tiny brook, rising at nearly 12,000 feet elevation, which flows through a high meadow basin for several miles before making its headlong plunge down a great gorge to join the Kern. You can jump the creek almost any place. It is shallow, has no deep pools, and does not look at all fishy, yet it is a splendid Golden Trout stream. One keeps well back from the edge of the water, casts carefully, and catches a limit of twenty fish without trouble. And, just imagine catching lusty twelve inch fish from little pot-holes the size of a wash tub. One wonders how they turn around.

One August, four of us determined to follow the mighty Kern out to its head, in a wide, granite-walled, inaccessible basin, which is guarded on three sides by a most formidable array of 14,000 foot peaks. We knew of many lakes up there, but supposed them without fish, since it was impossible for the Kern River Rainbows to surmount the cascades and falls at the basin outlet. We were simply exploring.

We left the trail in the lower canyon and worked upstream to where the first falls dropped swiftly down over an immense granite apron, which, in typical Sierra style, guarded the upper basin, and held it up a thousand feet or so above the canyon head. We had troubles, plenty of them, getting the animals up this barrier. Soil was scarce, and shod hoofs are not secure on smooth, glaciated granite, which is tipped like a house roof. We made trail, by rolling rocks, chinking crevices, and searching out a network of shelves and cracks, which would connect, and lead upward.

After a possible way was found for a distance, the animals would be led upward, one at a time, and very gingerly. Later, there was the top bulge of the apron to be crossed diagonally. We led our saddle horses, and left the pack animals to follow as best they could. It was hard going, and we were tired. We wondered why we had tackled it, with no especial reward ahead.

Occasionally from behind would come a clatter of skidding hoofs, a mighty "kerflunk," and old Bill, an enormous pack horse, would be down again. He lost some skin, and collapsed his pack boxes, but we finally got him to soil footing again, after much sweating and worry.

Just through a thin fringe of tamarack trees we came upon a tiny lake, and here we very thankfully made camp. It didn't look like a trout lake, but I jointed my rod, from force of habit, put on a small Royal Coachman, and cast out into the shadow where, in *(Continued on page 40)*

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Window Rock, a curious formation.

Little Bitter Pool Lake, Montana.

Our State Parks *and* Forests

State Parks and Forest Preserves are important recreational areas, and becoming of greater value each year

By BEATRICE M. WARD

Secretary, National Conference on State Parks

ONE of our most popular and important movements was born but five short years ago,—one whose success has been remarkable. In 1921 the National Conference on State Parks was organized to encourage and assist in the creation and proper development of State parks, forests and preserves within easy access of our people. At that time there was little general interest in the creation of State parks and forests.

At the request of the National Conference on Outdoor Recreation the Conference is conducting a survey of State parks and forests. This was made possible by the generosity of the Laura Spelman Rockefeller Memorial, which is vitally interested in the proper expansion of recreation. The survey shows that there are nearly 600 State parks, or similar areas, throughout the United States, aggregating over 2,500,000 acres. Over 150 State forests are open to recreation, and they contain approximately 1,700,000 acres. Today twenty-nine States have State parks; sixteen have State forests which are used for recreation; and a number have areas devoted to recreational use, administered by agencies not directly responsible to the States. Only two States have neither State parks, forests, or similar areas.

The advantages to a State of an adequate system of State parks are many. Expenditures for their creation are permanent investments—scenery, conserved, lasts forever. When well-developed they produce revenue, stimulate travel to and through the State, and in various other ways are a great boon to people in every walk of life. They are an economic asset. They preserve our scenic wonders and virgin timber for posterity. They are sanctuaries for wild life. They teach our children to love the out-of-doors. The motorist finds them a great convenience, as public camps are becoming a feature of their expansion. They afford people of moderate means and limited time for vacations opportunity for pleasure not otherwise possible.

The methods of creating State parks differ. A majority have been acquired either by purchase or gift. But interesting plans are followed in Missouri and Oregon. Missouri purchases her parks with receipts from the fish and game licenses—a certain percent of the proceeds are set aside for their acquisition and seven State parks, comprising in excess of 18,000 acres, are now owned by the State. In Oregon a law passed last February authorized the use of the general highway fund, derived from taxes on gasoline sales, for the purchase of parks. A number of small sites suitable for camping and picnicking have already been acquired. Washington derives its park fund from fines for infractions of the automobile laws, but this is not satisfactory, and strong effort will be made to have it changed. Then, too, transfer of State school sections for equal areas within the National Forests is being made in several western States.

The State park movement began with the creation of

the Niagara Reservation in New York in 1883. The following year Mackinac Island State Park, in Michigan, was established. For a number of years following no interest in State parks was exhibited, but with the advent of the automobile and the consequent growth of transcontinental travel, due to the betterment of highways, came an increased love of the out-of-doors, and a demand for the establishment of State parks and forests has swept the country like a prairie fire. Never before in the history of our country has there been such an interest in or need for recreational playgrounds, nor has the love for the open spaces been so strongly manifested.

The opportunities afforded by State parks and forests for recreation at a reasonable cost are an essential element in the necessity for their creation and make them invaluable no matter where located and especially near centers largely populated. An excellent illustration of this is the Indiana Sand Dunes State Park, which will serve Chicago and the State of Indiana. Indiana will spend over one million dollars to purchase this land, the citizens of Chicago are assisting in raising funds, and large sums have been donated. Splendid progress has been made in the development of Indiana's other State parks. In Illinois the 1925 Legislature created a Conservation Commission which insures the continued advancement of her parks.

Michigan is still leading in the provision of State facilities for outdoor entertainment, closely followed by Texas. She has fifty-four State parks; Texas has fifty-three. In the latter State all of her parks have been gifts, and in Michigan practically all have been donated, a number by the Dodge Motor Company and by Howard Bloomer of Detroit. The most outstanding example of donations for State parks is probably exemplified in the Palisades Interstate Park, New York, which apparently has the greatest recreational use of any State park, located, as it is, only a short distance from New York City. Gifts of land and money have totalled over $5,000,000, while the State has spent double that sum.

During the last few months the Legislatures of several States have taken action toward the institution of State parks and forests. Virginia has just created a Commission on Conservation and Development, which has authority to acquire park and forest lands. Mississippi and Georgia established forestry commissions and will consider the recreational question in the development of future forests. In Kentucky four sites have been accepted as State parks and an appropriation made for their administration.

The State of Wisconsin is working for a great State park in the kettle moraine area in Sheboygan and Fond du Lac Counties, which will afford recreational opportunities of untold value for a vast number of people. Florida has passed a bill providing for the extension of existing State parks, while the State Park Association of Louisiana will urge the enactment of a law for the formation of a State park division in the Conservation Commission. Alabama is endeavoring through act of Congress to acquire Little May's Gulf as a State Park. An interesting feature of this proposal is that the area, a beautiful gorge, was entirely overlooked in Government surveys until 1913, and is still public land. It has been withdrawn from all forms of entry at the request of Judge Payne, our Chairman. Tennessee is buying the shores of Reelfoot Lake for a park. Kansas and Nebraska are engaged in a program of acquiring lakes for parks and public fishing grounds.

Iowa, Ohio, California, and Washington continue their good work for State parks and forests and are actively engaged in their further extension. Utah recently has created a State Park Commission, and North Dakota is keeping pace with the movement.

Many people have the thought that a State park is a small area without much recreational possibility or natural beauty. But there are many thou- *(Continued on page 71)*

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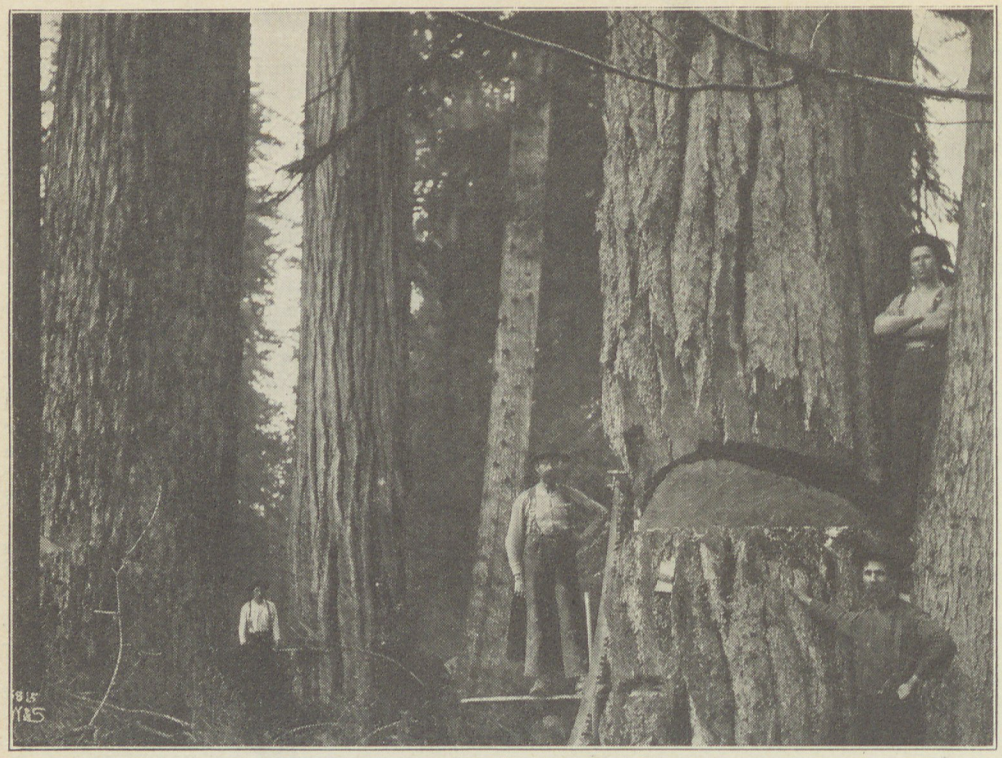
Moonlight on Sylvan Lake, Custer State Park, South Dakota



Any man can cut down a tree in just a little while.

The Trees of To-morrow

By
EL COMANCHO

ANY one man can cut a tree down in just a little while if he has the physical strength to swing an axe long enough.

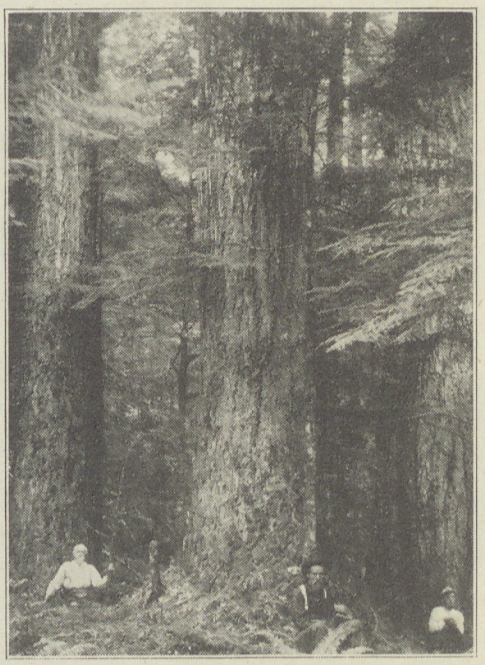
Two men can't make one sapling grow where a forest grew before, even if their whole government with all its resources stands back of the two men, unless they do it right.

One man, with patience and the absolute knowledge of laws of nature, gained by years of contact and slow piecing together of positive information, can make a new forest grow anywhere on earth that a forest has ever grown spontaneously before, but he must follow nature's laws exactly, and he *knows* it.

The trouble with mankind of today is that we can't get away from the idea that Man is a super-individual, above the laws that govern such lowly things as trees and fishes, wasps that build mud houses, or woodpeckers that dig holes in dead trees.

Man thinks he is the greatest thing in creation because he has five toes on his front feet, wears no tail and walks on his hind legs.

He assumes that he is the only animal that talks and I want to point out to him that he is also the only animal that needs to talk —all the others get along with expression of ideas rather than use of words.



Nature grows whole forests of clean straight trees.

Man comes to his fellows, all fussed up, like a peacock with his tail spread in the sun, and calls attention to the fact that he makes fire, melts iron, builds skyscrapers, makes water run uphill through a hollow pipe and makes a light appear at the end of a wire, any place he wants to.

Then he shouts from the housetop: "Lookut, youse guys —you birds and animals and fishes and trees—why don't you do these things that I do? You can't! You are just boobs while I am the Big Noise—I'm the Wise Guy—me! I'm GREAT!"

The poor wise man does not know that he has not, as yet, even begun to acquire wisdom; he does not live long enough to learn very much at best, but he loses sight of that and believes himself great because he doesn't know any better.

He lives less than one hundred years.

On the Pacific Coast are Sequoia trees, commonly known as Redwood. These trees are among the oldest living things in the world today and man is making shingles out of the only Redwoods left!

Can you understand an animal that would kill the oldest things alive so he could make them into a few shingles to cover his roof with and then pose as representative of a species having the greatest wisdom of all living things? You cannot!

Man makes me mad, Brother; he's the biggest fool the world knows because he rushes helter skelter down across a few years and puts in all his time in *destroying* things and trying to tell his fellows how *wise* he is!

He never yet *CREATED ANYTHING*. He never will; he doesn't know enough. All he can do is to make-over a few simple things.

Any common little Horned Toad basking in the sun of the Arizona desert has got him beat flat for real wisdom. The toad knows how to live without work, or worry, and without cutting his neighbor's throat to keep the other fellow from cutting his first!

Wise? Man, it is to laugh!

I've been forty-five years seeking the little bit of knowledge I finally gathered to make this story and I've traveled thousands of miles to get what little I have acquired.

I don't pretend to be a wise man; I only chronicle facts as I find them; I am not posing as a teacher but as a reporter who puts into language the facts he has found.

Two and two are always four, never five, never three; not by any chance or power, nor by accident or plan, can

To grow forests we must follow the laws of nature, says Comancho, who has spent his life studying America's trees

Halftones courtesy Mr. Elmer J. Hole

A new forest will stand or fall.

two and two be aught else than four, ever.

It was four before man was born; it will be four after man is gone from the scheme of things. Nor will it ever, by any whimsey, be aught else than four, nor deviate therefrom, whether we believe it or not.

Tie to that, Brother, for I name it as one fixed fact—two and two ARE four. They don't make four; they ARE four.

What I think, or do, has no effect on nature, for it is immune from me or my puny human ability to change, destroy, disturb or alter anything in any way whatever, more than I could alter a diamond by trying to scratch it with my finger nail. It can't be done; it is fixed and final.

I recognize this as a starting point—a place to journey out into the Mysteries from, and to come back to, because it will be there, always unchanged, no matter what I do.

A tree without knots is grown only by thick crowding of seedlings.

That brings me to what I started out to tell you about in the first place, which is a little group of two-and-two-is-four facts about trees and re-forestation.

The world does not know, or disregards, these facts either through ignorance, or the arbitrary angle from which man regards nature.

Man *thinks* all he has to do is to whistle and snap his fingers and make nature jump through a hoop of his own construction.

Man's real control of nature can, however, be summed up in just one little sentence: he can *destroy very, very easily,* but *he can create,* or *re-construct, not at all.*

He can, sometimes, help nature to construct, or even to re-construct, but only if he *lets nature be boss,* and *does not try to boss nature,* for when he tries to be boss then nature quietly upsets him and dumps him and his little plans into chaos and smilingly forgets him. All nature has to do to smash man's best plans is just to wait; just wait! Time does the rest.

Somewhere, not long ago, I saw a story and photographs showing how man, with government aid I believe, is producing "wonderful results toward 're-forestation' of cutoff timber areas."

I glanced through it; it was illustrated by a series of beautifully clear photos,

(Continued on page 51)

Man can destroy very easily.

Columbine, Aquilegia canadensis, *frequently suggested as a national flower. Wanton collection has exterminated the species in many regions.*

A Plea Vanishing

With some suggestions to campers who pick them

WHEN Columbus reached America he discovered a land rich in the gifts of nature, a land with a fauna varied and abundant and a flora of rare beauty and plenitude. The exploration of the white man, however, left a trail of slaughter and wanton destruction, a vandalism that continued until the wild pigeon, the whooping crane, the trumpeter swan, the paroquet and other species were completely extirpated, the roving millions of bison of our western plains were reduced to a few score of individuals, and the golden plover, California sea lion and brown pelican were threatened with extinction.

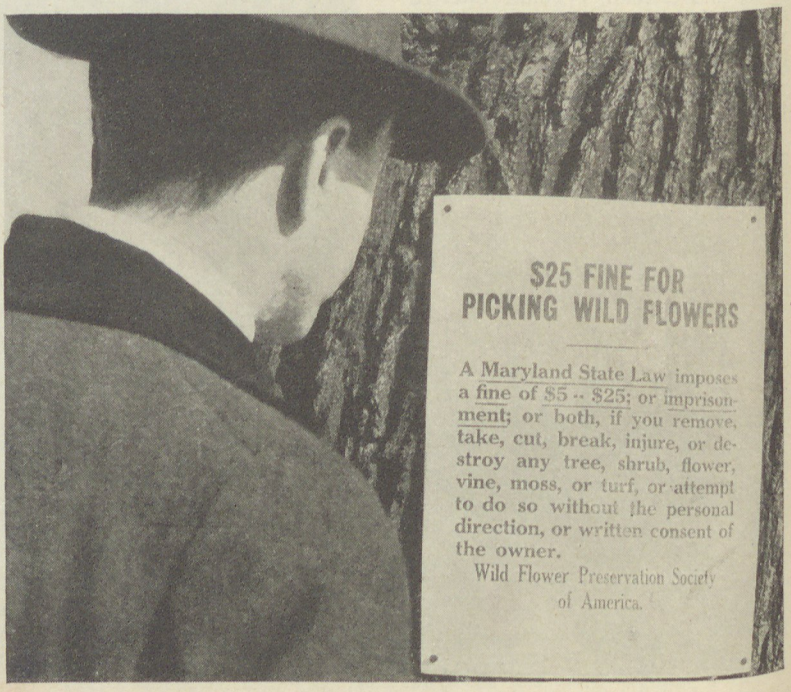
So alarming did this danger become to our fauna that numerous organizations originated for its protection. As a result of their efforts, the bison was saved from extermination by the segregation and protection of the few remaining herds. The wholesale slaughter of Alaskan wild birds by pot hunters was curbed by a presidential edict establishing the Yukon River Preserve as an inviolable refuge, and the pelican was rescued from threatened extinction by the setting aside of their principle breeding grounds as sanctuaries. In scores of other ways the work of these organizations has saved many animal species from total extinction.

The protection of our fauna has been successfully though not adequately carried on during the past generation. Let us now turn to the world of plant life and see what has happened. As in the animal world, numerous species have been exterminated and the work of destruction and devastation goes merrily on, almost unheeded and unchecked. We have been fairly well educated to the idea of protecting our birds and bison, but how many of us would refrain from picking a wild orchid, even though we knew the plant to be rarer in its occurrence than the buffalo?

The writings of the early botanical explorers contained frequent admiring allusions to the wondrous profusion of Lady's Slippers in the Appalachian region. Today, the occurrence of this particular species is comparatively rare, while in wide areas of former abundance the plant is practically extinct. H. Garman, the state botanist of Kentucky, states that the Yellow Lady's Slipper "is now not common in Kentucky, probably a result of the persistent search made for them by collectors of herbs."

Twenty years ago, one of the show places near Washington, D. C., was the massed growth of Redbud or Judas tree occurring naturally for several miles along the banks of the canal leading to Great Falls. Each spring the showy red-purple blossoms extending into the distance as far as the eye could see, appeared in such glorious profusion as to present a sight of rare natural splendor and beauty. This magnificent display is today but a memory; an individual tree growing here and there bears mute evidence of the vandalism of the past. One need only go to a nearby road during the Redbud flowering season and witness the masses of branches offered for sale to automobile parties by youthful venders to ascertain the reason for this rapid process of extermination.

Consider the Arbutus, that sweet flower so endeared to our hearts by tradition and sentiment. Within the memory of the present generation this lovely plant occurred in abundance, affording much joy and pleasure during those early spring days when the slightest touch of green and the most humble flower were welcome relief from the dreary landscapes of the recent winter. Today the Arbutus has ceased to exist in large numbers; on the contrary it


$25 FINE FOR
PICKING WILD FLOWERS
A Maryland State Law imposes a fine of $5 -- $25; or imprisonment; or both, if you remove, take, cut, break, injure, or destroy any tree, shrub, flower, vine, moss, or turf, or attempt to do so without the personal direction, or written consent of the owner.
Wild Flower Preservation Society of America.

In Maryland one must have the consent of the property owner to disturb plants.

for Our Wild Plants

By
ALBERT A. HANSON
Former President of the Wild Flower Preservation Society

Bachelor's Button or Corn-flower, Centaurea Cyanis. *Weedy but handsome, this plant may be gathered in large numbers without harm.*

has been locally exterminated in many regions as evidenced by the vicinity of Cornell University, where it is now rare.

In a Pennsylvania County this plant was extirpated in the short space of five years! It has disappeared within a wide radius of Washington, D. C.

When the State of Massachusetts adopted Arbutus (called Mayflower in New England) as the State flower, it was done with little realization that by so doing a demand would be created which has threatened the very existence of the species.

One is always most forcibly impressed with matters of actual experience, hence the writer must be pardoned for relating some personal observations. During several years spent in the vicinity of State College, Pennsylvania, abundant opportunity was afforded to study the condition of the surrounding flora.

In the spring of 1912, one of the finest displays of Arbutus was located in one of nature's rarest beauty spots called Shingletown Gap. As the name implies, the region is a gap in the mountains, presenting all the beauty of a rich mountain flora. In 1916 the Arbutus was so completely stripped from the gap that diligent search failed to reveal a single plant! About ten miles from the gap is Bear Meadows, a large Sphagnum bog of intense botanical interest. Here grows the insectivorous Pitcher Plant and Sundew, the rare little Twayblade Orchid, the American Larch, Highbush Huckleberry and numerous additional interesting plants, a veritable treasure trove for the nature lover. The late Professor William Buckout, that kindly soul whose extreme modesty robbed him of much fame, frequently talked to the writer about the abundance of Pitcher Plants that grew in Bear Meadows when he was a young man. So thick did they grow then that it was difficult to take a step without walking upon them. Due to their peculiar habit of drowning insects in their pitcher-like leaves and to all intents and purposes utilizing them in functions of nutrition, the Pitcher Plants are great natural curiosities and as such are in strong demand. Slow in reproduction, they have been unable to hold their own against degradation, gradually giving ground, until today but a few individuals exist as relics of former abundance. Their total extinction is a matter of but a few years unless immediate protective measures are enforced.

Hawkweed, Hieracium pratense, *growing in a meadow. Many weeds produce handsome flowers which may be picked in large numbers, thereby helping the farmer.*

The Yellow Lady's Slipper formerly grew throughout the region in great plenty. The college herbarium contains eight specimens, all collected within a small area known as the College Woods. Furthermore, the "old inhabitants" are unanimous in stating that the plant was among the commonest in the vicinity forty years ago. The writer has personally scoured the entire county, and has also requested the eight members of the botanical staff of the college to keep on the lookout for the species. After four years search, a single specimen was found, which disappeared the following season. Here, then, is an example of a plant rendered totally extinct in an entire county.

To the list of disappearing plants already mentioned, may be added the Fringed Gentian, Walking Fern, all Wild Orchids and Lilies, Ground Pine, Wild Azalea, Bird Food Violet, Trillium, Cardinal Flower, Bunchberry, Jack-in-the-Pulpit, Painted Cup, Star Flower, Indian Pipe, Solomon's Seal, Pipsissewa and a host of others. It will be noted that *the handsomest species are disappearing, leaving the less attractive plants to take their place.* In other words, our wild flora is gradually losing its attractiveness. Surely this is *(Continued on page 42)*

Dead fish—one result of pollution.

Pollution in Wisconsin

Mr. Baker, a sanitary engineer, who recently attended the League's National Convention, has prepared an interesting summary of conditions in his state

By C. M. BAKER

The Pollution Department is edited by Dr. Henry Baldwin Ward, a leading national authority on this subject. We are particularly anxious to know what the individual Chapters of the League are doing to eradicate pollution from their community streams or lakes. Address all such material to Dr. Henry Baldwin Ward, Pollution Department, OUTDOOR AMERICA, *536 Lake Shore Drive, Chicago, Illinois.*

POSSIBLE sources of stream pollution in Wisconsin are indicated in the following tabulation of industries:

Public Sewerage Systems	202
Industrial Waste	
Canning Plants	163
Coal Tar or Gas Plants	40
Milk Products	
Cheese Factories	2504
Creameries	611
Condenseries	67
Receiving Stations	815
Miscellaneous	195
Packing and Rendering Plants, Tanneries	52
Paper and Pulp Mills	63

Note: The tabulation above is substantially correct for sewerage systems and milk products, but the remainder of the data, which was compiled from the Wisconsin Gazetteer, is only approximate.

Wastes may be either directly poisonous to fish or they may so reduce the dissolved oxygen normally present that the fish suffocate. There may also be an indirect effect due to changed conditions in other aquatic life of the stream. All wastes listed above reduce the dissolved oxygen of the water while those from coal tar or gas plants, tanneries, paper and pulp mills and certain miscellaneous plants also contain substances poisonous to fish. The only oxygen available for fish is that present in solution or that dissolved from the air. Cold water will retain a greater amount of dissolved oxygen than warm water. The amount actually present in the stream, however, depends upon two main factors; first the amount of pollution or material that tends to use up the oxygen present, and second the power of the stream to replenish its supply of oxygen which is dependent to a large extent upon the agitation in the stream caused by rapids, falls, etc., and also upon the condition of plant growth. Pollution may use up the oxygen of the stream by directly combining with it chemically as in the case of sulphite liquor from paper mills or by slow oxidation of the organic matter by certain classes of nitrifying bacteria.

Industrial wastes are usually much stronger in their oxygen consuming power than domestic sewage. Analyses of domestic sewage seldom show values over 150 parts per million for oxygen consumed while a recent analyses of silage juice from a pea canning plant gave a result of 39,100 parts per million, 261 times as great and analyses of the floor and produce washings from the canning plant gave a result of 3,000 parts per million, 20 times as great. Analyses of sulphite liquor from a paper mill showed a value of 54,000 for oxygen consumed, 360 times as great as the value above for domestic sewage.

Industrial wastes may affect fish life in three ways:

(1) Direct killing of fish.
(2) Changes of natural conditions so that the fish seek other habitat either because of the condition of the water or of the effect the waste has upon plant and lower animal life constituting fish food.
(3) Influence upon fish larvae and young fish; that is upon reproduction of the species.

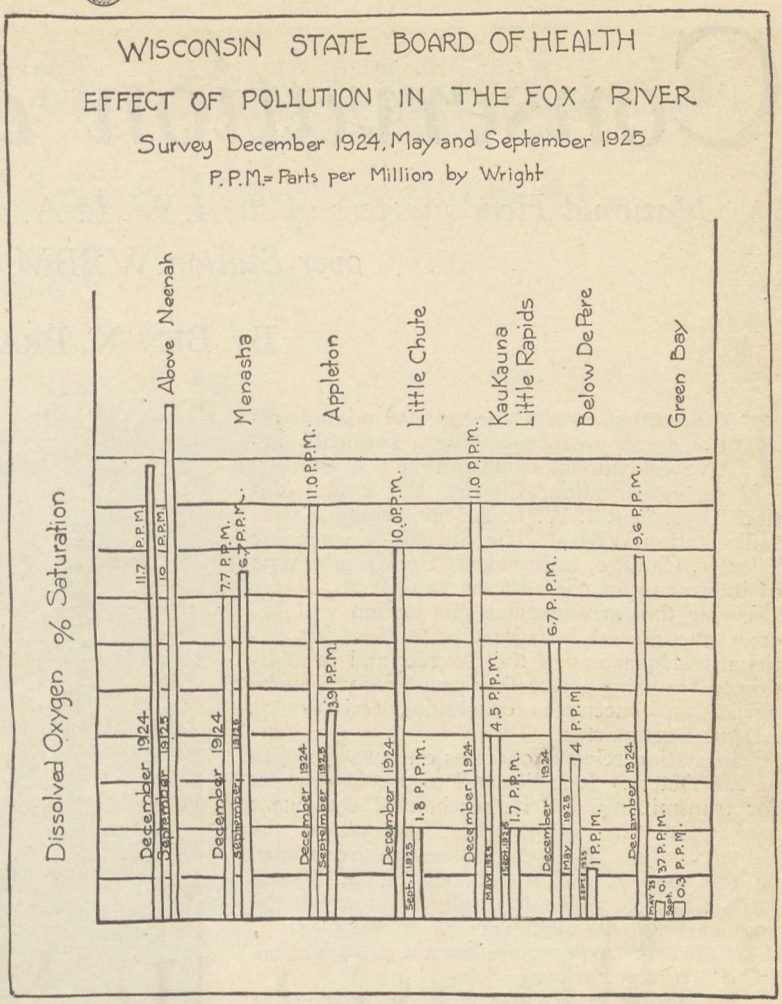
A report from the Bureau of Fisheries, Washington, D. C., states that if the dissolved oxygen of the stream is less than 2.9 parts per million, fish will suffocate; if 5.7 parts per million, conditions are not ideal but, if 8.6 parts per million, the water may be considered safe. Investigations on the Illinois River, polluted by sewage from the city of Chicago, indicate that fish life is entirely extinct where the dissolved oxygen is less than 2 or 2.5 parts per million.

The Fox River is seriously polluted throughout its length from Lake Winnebago to Green Bay; the Wisconsin from Tomahawk to about 20 miles below Nekoosa; the Flambeau in the vicinity of Park Falls and Ladysmith; and the Chippewa in the vicinity of Chippewa Falls. The Rock is seriously polluted below Watertown and Janesville, the Lower Fox below Waukesha, and the Menomonie below Niagara. There is also serious pollution in the immediate vicinity of lake shore cities. In practically all cases where serious pollution is indicated, there have been reports of large numbers of fish dying. There have, of course, been numerous other justified complaints that fish have been killed because of pollution in small streams.

Specific surveys have been made of the Wisconsin and Fox Rivers. A survey of the Wisconsin in the fall of 1923 when the stream flow was relatively high showed practically 100% saturation, 11.7 parts per million, dissolved oxygen in the water above Merrill with a gradual decrease to about 50%, 6 parts per million at Stevens Point, and about 59%, 7 parts per million below Nekoosa. Reports during the past summer indicate that conditions have been much more serious due to the low flow and warm weather and that fish have died in the Wisconsin because of this pollution.

A survey of the Fox River in December, 1924, showed practically 100% saturation of dissolved oxygen above Neenah, with varying quantities below, dropping to about 60% below DePere. At the time of this survey, the flow of water was large and conditions were favorable. Complaints were made to the State Board of Health in May, however, that fish were dying in the Fox.

An investigation disclosed the fact that the dissolved oxygen in certain portions of the river had been reduced to practically zero and for a considerable stretch to around two parts per million which is below the amount that will sustain fish life. At this time thousands of fish died.



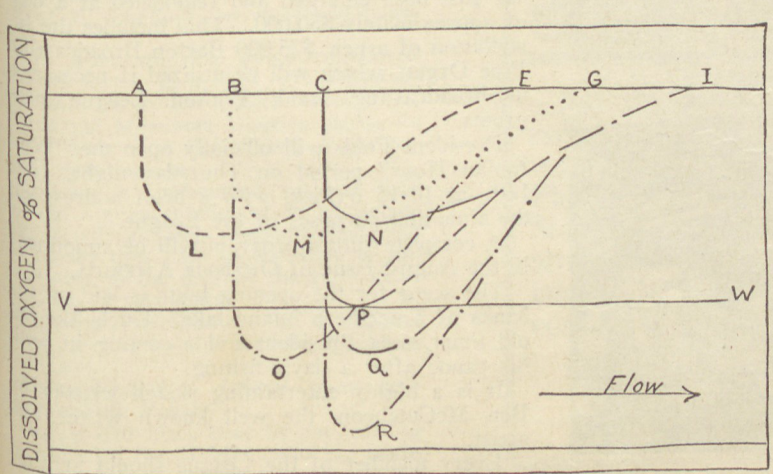
In September a similar complaint was made that fish were dying below Neenah and Menasha. A survey then also indicated that in certain sections the dissolved oxygen of the river water was practically depleted and that for a considerable area the oxygen was less than 2 parts per million.

The reduction of oxygen in the Fox is shown graphically in figure No. 2. The low flow of the river was, of course, a contributing factor but only in that it caused a greater concentration of industrial waste and sewage and resulted in depletion of the oxygen normally present.

In July 1925 thousands of fish died in the Flambeau River below Park Falls where the sewage of the city and wastes from a large paper mill are discharged. Here again the concentration of waste was due to the low water flow but had not the paper mill wastes and sewage been present probably fish would not have died. About one hundred muskelonge and numerous other game fish were picked up along the Flambeau below Park Falls. Three days with several men working were required to bury the dead fish.

When large quantities of dead fish are found in a stream, someone is always ready to attribute the whole cause to this or that industry or the wastes from one or another municipality while in all probability there are many contributing factors.

Figure No. 3, illustrates graphically the possible combined effect of three industries upon the dissolved oxygen of a stream. Assume that the line V represents the critical stage below which the dissolved oxygen may not fall without affecting fish. Plants A and C were first located on the stream. The reduction in dissolved oxygen from plant A is indicated by the curve *(Continued on page 61)*



Dissolved Oxygen Profiles of a Stream Polluted at a Number of Points

Conservation and Radio

National Headquarters of the I. W. L. A. will broadcast weekly programs over Station WBBM, Chicago

By BEN K. PRATT

IN accordance with the present administration's policy of demanding a nationally active educational campaign in the interests of conservation, Charles W. Folds, National President I. W. L. A., has arranged with radio station WBBM, The Stewart-Warner Air Theater, Chicago, to broadcast weekly programs of interest to members of the League.

Under this arrangement this station will become the official broadcasting station for national headquarters of the League, and in addition to featuring interesting programs will make official announcements concerning activities at League headquarters.

The station selected operates on a wave length of 226 meters. It is licensed to use 1500 watts for transmitting, and its mechanical equipment ranks with that of the best stations of the United States. The sending aerials are located on the roof of the Broadmoor Hotel, Rogers Park, Chicago, while the studio from which the broadcasting will take place is in the plant of the Stewart-Warner Speedometer Corporation, 1826 Diversey Parkway.

This step is in keeping with the progressive attitude of the Izaak Walton League of America for keeping in touch not only with the membership of the League but people generally who are interested in the preservation of our natural resources.

Interior view of reception room to Station WBBM.

As outlined in a conference with representatives of the Stewart-Warner Company, the League will be allotted a period of time every Thursday night to be known as "The Waltonian Hour." This will be between 10 and 10:30.

A number of interesting playlets, sketches, monologues, etc., are to be written and presented by competent broadcasting experts.

In addition, from time to time, prominent members of the League will be asked to give short talks over the station, at other than the regular hour.

It was indicated by those representing the Stewart-Warner Speedometer Corporation that they desired the League to make full use of the station at any and all times when emergency or necessity demands. Incidentally the new "Air Headquarters" of the League will be in one of the best appointed studios in the country. It has just been enlarged and remodeled at a cost of approximately $50,000. This includes the installation of a new $25,000 Barton Broadcasting Pipe Organ, which will be utilized if necessary, in broadcasting Izaak Walton League programs.

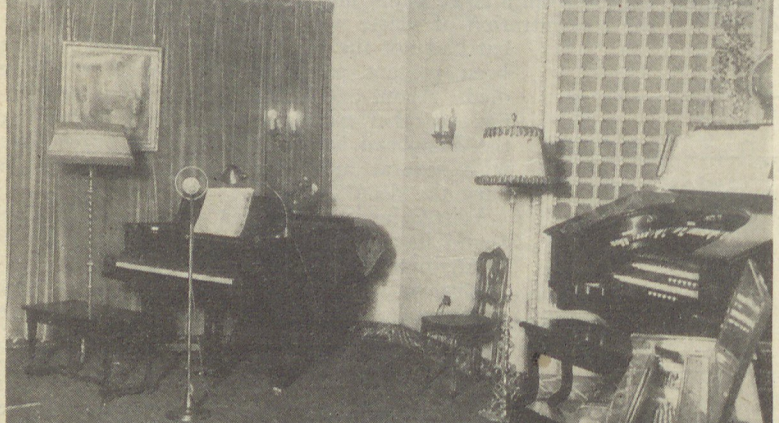
President Folds will officially open the "Waltonian Hour" period on Thursday night, June 17th, at 10:15 o'clock, with a brief address on the aims and purposes of the League.

A complete future program will be announced in the August issue of OUTDOOR AMERICA.

The scene for the opening hour is laid on the banks of a northern inland lake. Uncle Ike, an old timer, sees President Folds coming in with his canoe after a day's fishing.

It is a highly entertaining sketch written by Ben McCutcheon, the well known writer and artist.

Every member of the League should arrange to listen in.



Interior view of studio where broadcasting is done.

Waltonian Activities

News of Izaak Walton League Chapters

Edited by ED. H. PHILIPPI

Executive Secretary

MILWAUKEE, WIS.—Four thousand enthusiastic Waltonians and their friends recently attended the booster meeting given by Milwaukee Chapter.

Kermit Roosevelt, who recently returned from an extended Asiatic expedition, shared the speaker's program with Charles W. Folds, National President of the League.

Fred Leuning, President of the Chapter, acted as chairman of the event.

A vivid account of the Simpson-Field-Roosevelt trip by Mr. Roosevelt and the address by "Charlie" Folds were greeted with tremendous applause.

* * *

Minneapolis, Minn.—Three hundred and fifty Minnesota Izaak Walton League members brought their annual convention to a close recently by pledging themselves personally and through their organization to a definite program of wild life and forest conservation.

The convention closed with the election of officers and reports of committees, but during the day the delegates heard a score of speakers and nearly every delegate personally reported his local chapter's stand on important issues. Four officers were re-elected and in addition six vice-presidents were named. The complete roster of officers now is:

George H. Selover, Minneapolis, president.

Deane S. Rundlett, Minneapolis, first vice-president.

H. J. Denney, Duluth, second vice-president.

Dr. George M. Palmer, Bemidji, third vice-president.

R. Pope, Mora, fourth vice-president.

George Packer, Annandale, fifth vice-president.

M. M. McGrew, Red Wing, sixth vice-president.

Dr. C. M. Brendon, Waseca, seventh vice-president.

Fred H. Doellner, secretary and treasurer.

And after studying issues considered vital to forest, game and fish conservation the convention passed resolutions:

That the Minnesota Division pledge its hearty support to the officers of the national organization.

Favoring a combination resident fishing and hunting license of $1 to include both privileges and recommending that the money thus paid to the state be appropriated to the uses of the state game and fish department.

Favoring establishment of a national forest preserve on Ponemah Point, in Red Lake.

Recommending a federal game preserve on Isle Royale.

Urging that black bear be put back on the protected list of Minnesota big game.

Condemning the lake drainage project in the Rainy Lake district.

Mrs. T. C. Miller of Seattle, Wash.

Approving the Hoover plan for establishment of bass ponds.

Recommending that the legislature empower the Twin Cities to issue bonds necessary to prevent pollution of the Mississippi river through sewage disposal.

Urging passage of the United States game refuge bill which comes before congress this week.

Condemning promiscuous cutting of Christmas trees and recommending that small evergreen trees be cut only by persons who have written permits approved by town clerks and signed by owners of the land.

Favoring restriction of winter fishing at the discretion of the state game and fish department.

One measure under discussion was not acted upon, the buck law. There were so many divergent views that the question could not be disposed of.

John W. Shaffer, Minneapolis, reported that the Minneapolis chapter now has $36,000, representing a bequest from the estate of the late Caleb Dorr, with which to construct bass ponds along the Hoover plan. This sum is nearly a third of the amount allowed the state game and fish department for fish propagation all over Minnesota. O. A. Sundness of Chisholm also spoke on this subject, and E. L. Eldred of Shakopee described the work of the state bass hatchery at Shakopee.

Rough fish control was reported on by Captain C. F. Culler of Winona, district superintendent of the United States bureau of fisheries; H. G. Dressel of Waterville, T. A. Gunderson, Cottonwood; L. Patter, Remer, and D. M. Iverson, Clarkfield.

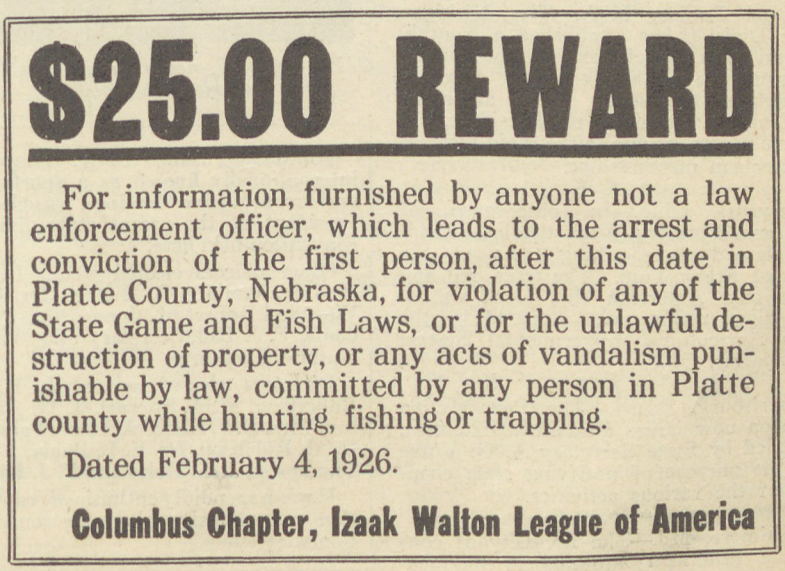
Delegates from a score of towns reported on their warden service and asked for expansion of forest and game protection through appointment of volunteer wardens from the membership of the local league chapters.

Frank Blair reported on the state game farm at Mound and Dr. E. E. Giltner of Waseca discussed the crow shoots being conducted by chapters in districts where the birds are numerous enough to be a menace.

Frank Warren explained the necessity of the game preserve on Isle Royale and showed motion pictures of a wild charging moose that almost wrecked his camera.

* * *

Pittsburg, Kan.—A. L. Scott, President of the Kansas Division, and author of the Kansas Forestry Fish and Game Law which created a commission on fish, forestry and game, recently incorporated the


$25.00 REWARD
For information, furnished by anyone not a law enforcement officer, which leads to the arrest and conviction of the first person, after this date in Platte County, Nebraska, for violation of any of the State Game and Fish Laws, or for the unlawful destruction of property, or any acts of vandalism punishable by law, committed by any person in Platte county while hunting, fishing or trapping.
Dated February 4, 1926.
Columbus Chapter, Izaak Walton League of America

Columbus chapter puts up signs.

state division with headquarters in Pittsburg. The incorporators are A. L. Scott, Pittsburg; W. M. Upham, Coffeyville; E. J. Sheldon, Paola; G. R. Atherton, El Dorado; F. C. Petrie, Dennis and J. A. Cushman of El Dorado.

The State Forestry, Fish and Game Commission is now investigating the many sites offered for the establishment of state sanctuaries and the Division is planning an active membership campaign.

* * *

Pasadena, Cal.—The recently organized Pasadena Chapter is rapidly increasing its membership with special meetings, according to Townsend E. Davis who is working night and day to put over a big chapter before electing permanent officers.

* * *

Elgin, Ill.—Elgin Chapter recently received a shipment of game fish for stocking purposes from the state Conservation Department.

* * *

Peoria, Ill.—Peoria Chapter recently held an enthusiastic meeting. Robert Scholes, State President; Dr. Henry Baldwin Ward, State Vice President; Dr. A. M. Buswell, Chief of the Water Survey Department of the University of Illinois; E. N. Woodruff, former mayor of Peoria and A. L. Anderson, President of Peoria Chapter, gave interesting talks on the polluted condition of the Illinois River and urged the immediate construction of sewage disposal plants.

* * *

Lakeland, Fla.—A big booster meeting was held here recently by Lakeland Chapter, and a heated discussion took place regarding the pollution of local waters by washings and phosphates from mines and other sources. It is planned to cooperate with other chapters of this state in combating this condition. Officers of Lakeland Chapter include W. P. Howard, Jr., P. M. Henderson, Dr. J. P. Getzen, H. F. Pierson and Robt. A. Merrill.

* * *

DeKalb, Ill.—A special meeting was held here recently to plan a membership drive and new chapter officers were elected. The new officers are: Walter Cannon, President; Harold S. Cates, Vice President; Harrison B. Sawyer, Secretary; and Perrie Still, Treasurer.

* * *

Waukegan, Ill.—A chapter was recently organized here under the direction of Major R. A. P. Holderby, National Organizer. Captain State of Toronto, Can., made the principal address. Officers of the new chapter are:

* * *

Grand Rapids, Mich.—The Michigan State Division has established a monthly bulletin to accurately convey news of the Division's activities to its members throughout the state. This, according to Henry A. Schuil, State President, has become necessary due to the rapid increase in Michigan memberships.

* * *

Bucyrus, Ohio.—In observance of American Forestry Week the local chapter planted 600 seedling trees on the farm of Frank Tum. The trees, red and white oak, American elm, black walnut and sugar maple, were donated by the Ohio Agricultural Experimental Station at Wooster, Ohio.

* * *

Harrisburg, Penna.—The Pennsylvania Division now issues a monthly statement, compiled by State Secretary A. O. Vorse for the purpose of notifying state chapters of the various activities.

* * *

Baltimore, Md.—The necessity of converting fishermen into anglers was discussed at a recent meeting of the local chapter and a casting tournament was inaugurated. Members voted to invite the Maryland Fish and Game Association, the Belair Road Fish and Game Association and the Mount Washington Fish and Game Association to cooperate with the members of the chapter in tournament casting, which will include fly, bait and surf casting. Members of the three associations were asked to participate in the tournament work at Druid Hill Park, Liberty Heights avenue and Reisterstown road entrance, at 2:30 p. m. each Saturday and at 2 p. m. each Sunday. G. R. Babylon is chairman of the tournament casting division.

HELP SAVE OUT-DOOR AMERICA
JOIN THE Izaak Walton League
DEFENDER OF WOODS-WATERS & WILD LIFE
IZAAK WALTON LEAGUE DUES $3.00 PER YEAR
INCLUDES OFFICIAL MAGAZINE "OUTDOOR AMERICA"
"THE" IZAAK WALTON LEAGUE
DOING A BIG JOB
JOIN ABOVE YOU PUTTING YOUR SHOULDER TO THE WHEEL
DOES CIVILIZATION MEAN DESTRUCTION
LOVERS OF WOODS-WATERS AND WILD LIFE
THE IZAAK WALTON LEAGUES BUSINESS IS YOUR BUSINESS

Mendesha Chapter's Booth.

South Dakota, Sioux Falls, June 7, 8.
Iowa, Independence, June 9, 10, 11.
Wyoming, Mammoth Hot Springs, last week in July.
Pennsylvania, Williamsport, Sept. 28, 29, 30.
Nebraska, Valentine, Sept. 29, 30.
Ohio, Columbus, early in October.
Indiana, Terre Haute, Oct. 28, 29, 30.
Kansas, Eldorado, last week in October.

C. W. Campbell, newly elected President of the Oklahoma Division.

Ponca City, Okla.—C. W. Campbell, internationally known as a sportsman and breeder of fine bird dogs, was elected President at the recent state division convention held here.

Other officers elected were: L. W. Weaver, Wallace G. Hughes, Dr. A. J. West and Robert M. Jones, Vice-Presidents; F. J. Hill, Secretary and Will S. Guthrie, Treasurer.

Directors elected were: J. B. A. Robertson, M. A. Stewart, J. G. Alderson, Mrs. B. F. Hancock, Harve Langley, C. M. Robinson, Dr. E. L. Bagly, Floyd Thompson, J. G. Rales and F. J. Hill.

It was a spendidly enthusiastic convention and extensive plans for conservation were made.

New Chapters Organized Since March 20, 1926.

Guide Rock, Nebr.; Amboy, Minn.; Goodthunder, Minn.; Easton, Minn.; Minnesota Lake, Minn.; Pine River, Minn.; Boscobel; Foster, Nebr.; South New Berlin, N. Y.; Owatonna, Minn.; Blooming Prairie, Minn.; Round Lake, Minn.; Waldorf, Minn.; Rock Rapids, Iowa; Minden, Nebr.; St. Onge, S. D.; Hudson, S. D.; Kalkaska, Mich.; Boswell, Ind.; Fowler, Ind.; Oxford, Nebr.; Wahpeton, N. D.; Bryan, Texas; Lake Elmo, Minn.; Poland, N. Y.; San Bernardino, Calif.; Redlands, Calif.; Ellendale, Minn.; Hartland, Minn.; Wolcottville, Ind.; Mt. Carmel, Ill.; Fredonia, Wis.; Thayer, Kansas; Stanton, Mich.; Bradford, Pa.; Sulton, Wash.; Newport, N. Y.; Manchester, Iowa; New Prague, Minn.; Sperry, Okla.; Cando, N. D.; Old Forge, N. Y.; Burns, Kansas; Bancroft, S. D.; Shelbyville, Ind.; Waukegan, Ill.; Seymour, Texas; Waverly, Kansas; Towanda, Kansas; Stroudsburg, Pa.; Campbellsport, Wis.; Bison, S. D.; Washington, Pa.; Upland, Calif.; Hamlet, Ind.; Silver Lake, Ind.; North Manchester, Ind.; Snyder, Nebr.; Phillipsburg, Kan.; Ashville, Ohio; Hattiesburg, Miss.; Pilger, Nebr.; Heron Lake, Minn.; Dundee, Minn.; Avoca, Minn.; Jefferies, Minn.; Avon Park, Fla.; Driftwood, Pa.; Alexandria, Ind.; Darlington, Ind.; Clear Lake, Wis.; Twin Lakes, Wis.; Gibbon, Minn.; Clear Lake, S. D.; Randon Lake, Wis.; Cedarburg, Wis.; Mifflin, Pa.; Sebring, Fla.; Gary, S. D.; Groton, S. D.; Waubay, S. D.; Milbank, S. D.; Pine Village, Ind.; Corpus Christi, Tex.; South Haven, Minn.; Truman, Minn.; Westbrook, Minn.; Currie, Minn.; Gilbert, Minn.; St. Petersburg, Fla.; Sheridan, Ind.; So. Brownsville, Pa.; Clayville, N. Y.; Ravenna, Ohio; Goodwell, Okla.; Dodge, Nebr.; Alpine, Tex.; DeLand, Fla.; Hamilton, N. Y.; Monessen, Pa.; Abbotsford, Wis.; Tyrone, Okla.; So. St. Paul, Minn.; Worthington, Minn.; Ceylon, Minn.; Triumph, Minn.; Lebanon, Ind.; Milford, Nebr.; Elnora, Ind.; Chester, S. D.; Omro, Wis.; Kimball, S. D.; Platte, S. D.; Mason, Wis.; Kirkland, Wash.; Pasadena, Calif.; Belle Fourche, S. D.; Gate, Okla.; Beaver, Okla.; Aspinwall, Pa.; Blue Earth, Minn.; Winnebago, Minn.; Delavan, Minn.; Wells, Minn.; Wymore, Nebr.; Wilber, Nebr.; Renton, Wash.; Wessington Springs, S. D.; Blunt, S. D.; Highmore, S. D.; Harrold, S. D.; Valparaiso, Nebr.; Brooklyn, N. Y.; Rosalia, Kan.; Cleo Springs, Okla.; Hooker, Okla.; Lewistown, Pa.

Cedarburg, Wis.—Cedarburg Chapter, recently formed with a membership of 107 members, claims to have the oldest Waltonian in the state in C. W. Lehman, veteran of the Civil War, who is 87 years old. This chapter has enlisted the services of 25 game wardens to patrol the streams of Ozaukee county.

* * *

Gulfport, Miss.—Robert L. Hollingsworth, speaking before the Kiwanis Club of this city, recently gave a very interesting address on the aims and purposes of the Izaak Walton League.

* * *

Terre Haute, Ind.—William Nattkemper and William J. Peare, two of a party of five game wardens scouting for fish nets and traps on the Wabash River, were drowned recently. These men had been especially active in the interests of conservation and local Waltonians turned out for the funeral. The following tribute to Mr. Nattkemper was printed in the local paper:

"Members of the Izaak League laid aside their work Monday afternoon to pay honor to William Nattkemper, the game warden who was drowned while trying to find nets and traps used by fishermen in the Wabash.

"Will Nattkemper was one of the league's most enthusiastic members. He was one of the state's best game wardens. He told a member of the league that he intended to clear the Wabash of everyone of these traps so that it would belong to the fair and square fishermen.

"We write after his name: Another man who dies at his post of duty. Who died while doing his work well.

"What more can any man want written after his name?"

* * *

Dresden, Ohio.—Plans were consummated Monday in Columbus whereby the Lon Roney Chapter, Izaak Walton League, takes over control of Monroe Basin in the interest of promoting better fishing in this section. The plan to make a fishing resort for the general public of this body of water has been the dream of many local anglers for years, but only recently has a way been found to make it possible.

A committee from the Dresden Chapter consisting of President Gilbert Dowell, Tip Stone, Guy Ryan and Harvey Biery made the trip to Columbus Monday to present the matter to the Department of Fish and Game, the Board of Public Works and Governor Donahey.

* * *

Atoka, Okla.—Atoka Chapter has a 7,000 acre game preserve and have already placed 500 quail and sixty pheasants on it.

* * *

Coon Rapids, Iowa.—Coon Rapids Chapter has organized a junior chapter with a membership of twenty. They plan to double this membership this month.

* * *

Waverly, Ohio.—Waverly Chapter, according to a recent report from W. F. Merriam, its secretary, has prevented the local gas plant from further polluting the river at that point and has prosecuted several pot-hunters.

* * *

Kimball, Neb.—Kimball Chaper is active in the organization of a junior chapter and has drawn up a most interesting set of by-laws for the junior organization.

* * *

Spearfish, S. D.—Spearfish Chapter recently staged a unique buffalo banquet at which more than 500 Waltonians were present.

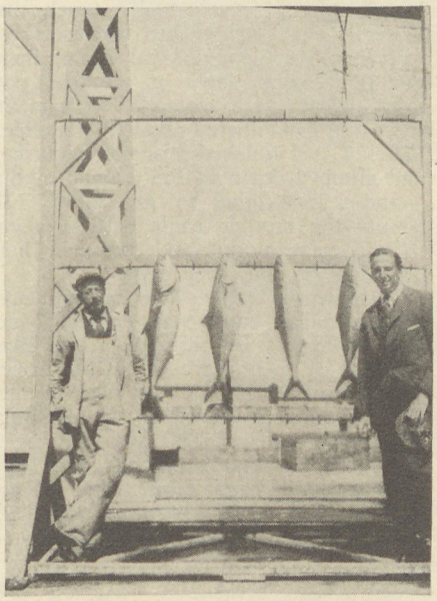
Tacoma, Wash.—Tacoma Chapter is backing the plan to drain Steilacoom Lake for the purpose of killing off all undesirable fish. The chapter plans to restock this lake with trout.

* * *

Tampa, Fla.—Tampa Chapter recently presented the following petition to the city council:

"We, the undersigned petitioners, are residents of the city of Tampa, and, realizing the recent expense of the city to build a pier for purpose of fishing and furnishing clean and proper entertainment for home citizens and visitors, ask that the city commissioners pass an ordinance prohibiting the use of seines and nets in all salt water within the city limits of Tampa. We endorse an ordinance as follows:

"No seines, gill nets, stop nets or other kind of nets shall be fished in any of the salt water in the city limits of Tampa (except a cast or minnow net for the purpose of catching live bait).



Capt. Edmundson

"We petitioners present this for the welfare of our community and for our visiting friends. The use of above-named nets have demoralized the fishing entertainment on pier and other surrounding salt water places, within our city limits."

The proposed ordinance has passed the first reading before the council, with penalties of a fine of $50 and 30 days in jail, or both.

* * *

Topeka, Kan.—Eight members of the Izaak Walton League won prizes at the trap shoot recently. They were A. R. Springer, Dr. James Stewart, Dr. F. O. Burkett, F. O. Burkett, Jr., W. Gillman, J. E. Goss, George Vigneron and Paul Litchenstein.

Only about 30 shooters were out, the small crowd being blamed on the rainy weather.

The Izaak Walton League was represented at the state shoot in Wichita, May 16 to 19, by individual members, and also by a five man team.

The high scores were:

R. B. Reed .....39 out of 48
W. Early .....28 out of 48
W. W. Culver .....19 out of 24
Lakin Meade .....13 out of 24
C. Miner .....18 out of 24
A. Cooper .....16 out of 24

* * *

Utica, N. Y.—Many people stopped Ward B. Edwards, President of Utica Chapter and asked him for details concerning the league. It took a great deal of Mr. Edwards' time. He devised a corking plan. He took a trip to the editorial office of the local paper and arranged to write a series of articles on the league. It worked, and the publicity is helping greatly. Utica Chapter is also sponsoring a prize fish campaign for 1926.

* * *

Winnetka, Ill.—The Winnetka Chapter of the Izaak Walton League of America offered an American flag and standard to the village which got out the largest percentage of its qualified vote at the primaries on April 13th. This flag is to be awarded and held by the village until the following election, and the village winning the flag four times is to own it permanently. The contest is confined to the four villages in New Trier Township, namely, Glencoe, Winnetka, Kenilworth and Wilmette.

The flag was won by Kenilworth with 47.1 per cent. Winnetka was second with 44 per cent. Glencoe was third with 39.4 per cent, and Wilmette fourth with 38.7 per cent.

The presentation ceremony took place in the Assembly Hall of New Trier High School at 8:30 a. m., Tuesday, May 4th. Judge Charles M. Thomson of the Appellate Court made the presentation on behalf of the Izaak Walton League, and James C. Murray, Mayor of Kenilworth received the flag on behalf of that village.

One of the incidents of the campaign to get out the vote was a letter of approval from Secretary Herbert Hoover, calling attention to the vote as an element of good citizenship.

The flag will be held by Kenilworth until the next election, when it will again be thrown into competition on the same basis.

* * *

Forrest City, Ark.—Forrest City Chapter has secured control of the fishing privileges in Shell and Pettijohn lakes, located in St. Francis County, and has placed posters on both of them prohibiting fishing without a permit issued by the secretary, H. T. Royce, of Forrest City. These permits place a size limit on the fish to be taken, also a daily bag limit, are good for the year and are issued to any person who will apply for them. A charge of 25 cents is made for each permit, to defray the expense of printing and posting.

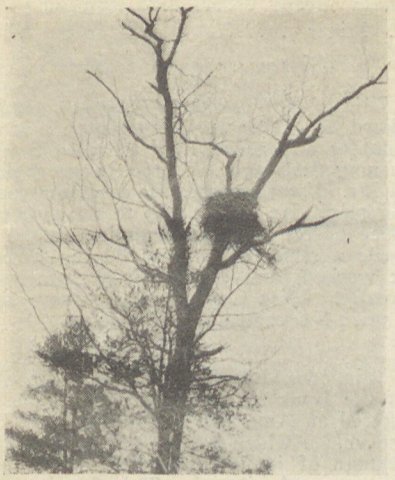
* * *

St. Louis, Mo.—Harry Collins, State Secretary of the Missouri Division, has the following good suggestions to make concerning migratory wild fowl:

Ducks are starving in many parts of the United States and particularly along the western flight where they have had a continued drought. Reports of starving ducks are also coming in from Louisiana and Arkansas where there is supposed to be an abundance of food. The trouble is that the ducks' feeding grounds are greatly reduced and they congregate in quantities where there is an abundance of food. This food is consumed in a short time. The ducks starve during their search for other feeding grounds.

I can only see one solution to the prob-

(*Continued on page 39*)



The Eagle's Nest.

Mostly About Boys

Written by the Waltonians of Tomorrow and Edited

By BEN EAST

JULY—Na-pen-nee, the Midsummer Moon—and while we sit here in the heat of the noonday sun, waiting the time to go out to the harvest field again—for there has to be some play scattered in our vacation, doesn't there, boys?—I believe I'll tell you about a trip I made away back in May, with three lads that are sitting right here with us beside the Shack, right now.

It happened up in the northern part of Michigan, on a day when the fishing was good. I was out in the middle of a little stream called the Baldwin, in waders, and up to my waist in cold water. The fishing was good, but I wasn't catching any, for I'll tell you a secret, boys. The editor likes to fish as well as any of you, but it's not often that he has much luck, which doesn't spoil his fun a bit, for he has a good time whether anything bites or not. That is, except mosquitoes.

I was getting pretty cold—the Baldwin is cold at that time of year—when three boys came along the bank, and stopped to tell me about their fishing. They hadn't caught anything either, except a sucker. After we had talked a while we found that we knew all about each other. They had been sitting around this fire of ours for a year or so, listening to our stories, just too bashful to break in.

Pretty soon they told me about a pair of eagles that had a nest on a lake a few miles away. Out of the stream I clambered, off came my waders, we all folded our rods, walked back to the car, hauled our camera, climbers, and rope, and went eagle hunting. With the camera, that is.

We found both Mr. and Mrs. Eagle at home. She was sitting on the nest, perched 60 feet from the ground in a big oak top, and her mate kept guard from the tip of a dead stub a few rods away in the forest.

The eagle's nest is a great platform of dead sticks, some of them an inch or two in diameter, woven together as carefully as the fibers of a robin's nest. On the top of this is a soft lining of grass, hollowed out to fit the big bird's body, in which she lays her eggs, and broods them.

I inched my way up the tree till I was above the nest, and took the picture shown here. The mother bird left the nest before I began to climb up, and while I stayed in the tree she and her mate circled over my head, uttering their sharp piercing screams. Perhaps because I did not actually touch the precious eggs, or perhaps because they felt I meant them no real harm, they did not swoop down at me, did not even threaten me, except to scream at me while I clambered about in the tree. When I had finished with my pictures, and climbed down to the ground again—and I was glad to get there, I'll admit—the mother eagle settled down to the nest again, and resumed her brooding on the three eggs.

By now the eaglets are hatched, are perhaps large enough to fly out over the wilderness by themselves. I like to think of them, perched on the great platform of sticks, watched over by the big white-headed parent birds, learning the use of their broad young wings. Like to think that I photographed the nest and the eggs from which they were hatched, back there that May day, and then went away and left the savage family undisturbed and happy.

And now here's the secret of the trip, boys. The three lads that guided me to the nest, Bob Duffing, and Bill and Jack Gleason, were going to write this story for us. But it hasn't reached me yet in the mail, so I've told it for them.

Hinckley, Minnesota.

Dear Editor and Gang:

One cold morning last winter I started out to get a bob-cat that had been killing sheep around here. Rex, Wolf, and Prince got the trail almost as soon as we were in the woods, following it through a big swamp and into more woods. Rex was in the lead and getting near the cat, so I ran in a large circle thinking I might get a shot at it. Sure enough, there it was, running across a small opening, so I up with my gun and let go.

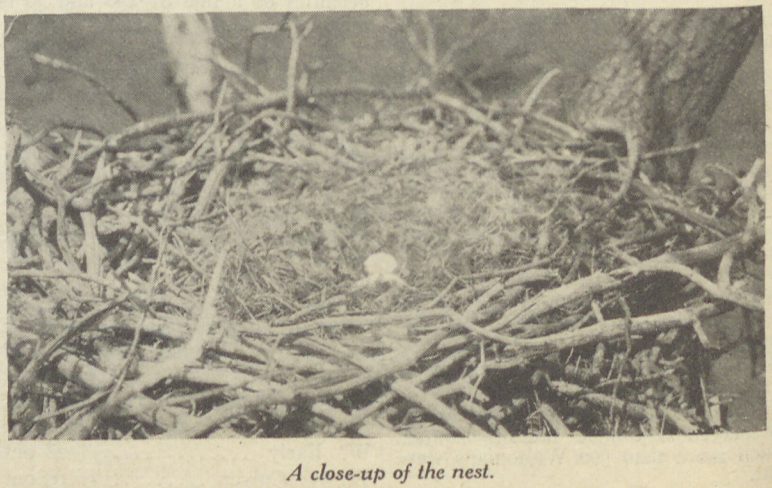
I guess I must have been kind of shaky, because I only hit his right hind leg. The cat gave a scream, worse than I ever heard before, and made ready for a spring. There I stood, as helpless as a baby, with a gun in my hands and lots of trees handy, but it seemed as if I couldn't move. Just then Rex came up with Prince and Wolf behind. The cat changed its mind and turned and went to a big tree where it stood spitting and snarling at us. Rex jumped and the first thing the cat gave him a deep cut from head to tail. The other dogs weren't so sure if they wanted to get as close to the cat as Rex did, so I shot him through the heart, skinned him and went home feeling very good.

The farmers praised me highly, but what I cared most for was the rug that is in front of our fireplace now.

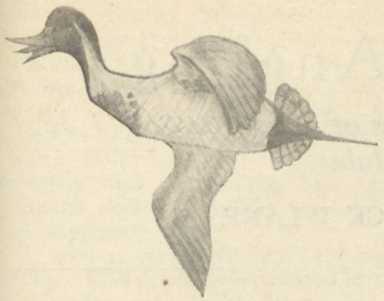
Best of wishes,

GUST HARRIS.

You have a right to be proud of that rug, Gust. And we don't blame you for not being able to move there for a minute. Come again.



A close-up of the nest.



Drawing by Bill Smith, Jr.

129 Tanner St.,
Sikeston, Missouri.

Dear Editor:

I like to read about, and draw ducks, so I am sending you a couple of sketches for you and the rest of the gang to see if you can find room for them.

I am physically unable to do much hunting, having been sick since early in 1925.

Hoping that all is well with OUTDOOR AMERICA,

BILL SMITH, JR.

Thanks for the duck pictures, Bill. You bet we want to look at them, every one of us. I call them good, and I'm sure the rest of the gang will agree with me. Sorry to hear that you are somewhat of a "shut-in," but will hope that by this fall you will be well enough to get out on the marshes again.

Youngsville, Pa.

Dear Editor and Fellows:

This will be my first letter. I have never been to the campfire before. I want to relate some of my experiences with skunks.

Once a lady neighbor of ours said she had a skunk in her empty silo, and wouldn't I please get him out? The silo was tiled inside, so the skunk could not climb out. I took my .22 and was going to shoot him, but he seemed so friendly that I thought I would get him alive. There were two holes in the bottom of the silo, not quite big enough for the skunk to get through. I tried to corner him in a box, but he wouldn't go in, and at last he tried to get through the holes. He got his head through, and I took him by the tail and jerked him out. I carried him home by the tail. I had fixed a wire pen with a board floor and I put him in this.

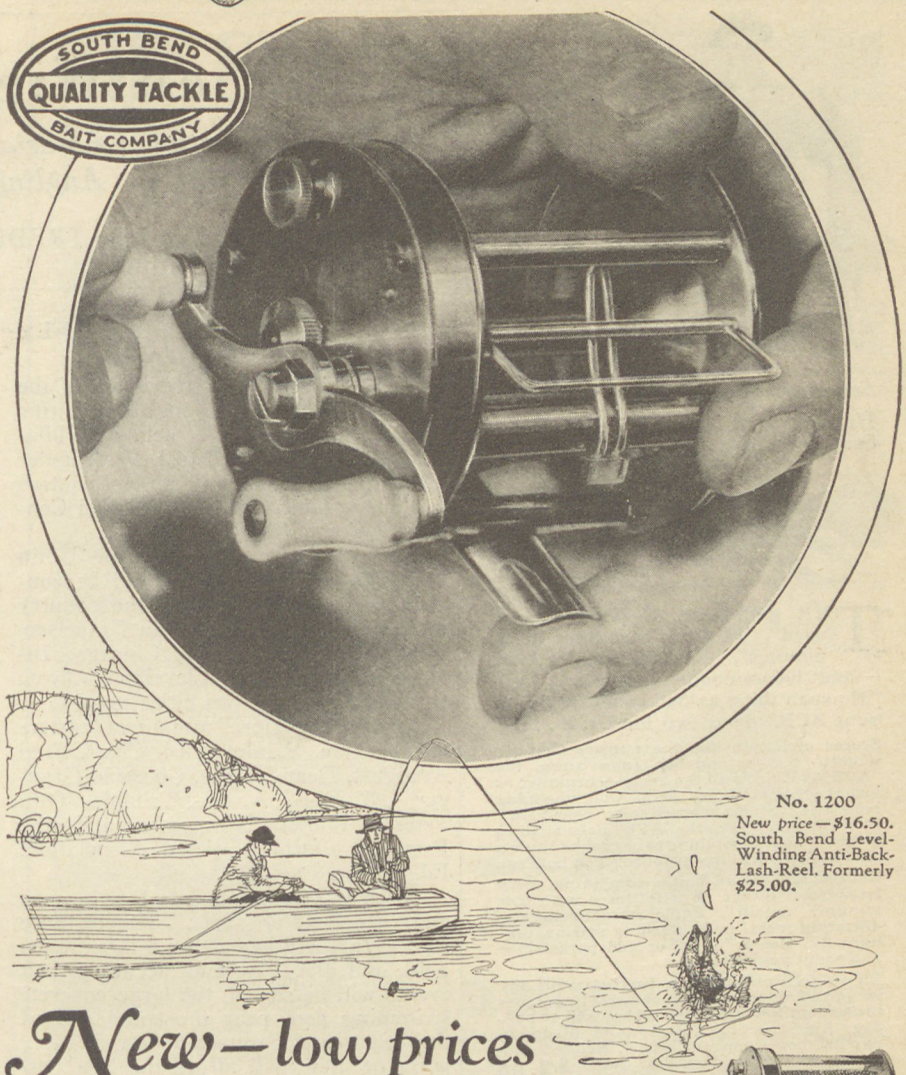
Next morning I went to see my traps and I had a skunk by the foot. It was a small No. 1 trap, so the foot was not hurt. I put a small keg over him and took the trap off. Then I took him home.

I put him in the pen with the other skunk, but they were there only about a week when I let them go, because they did not seem happy.

Sincerely,

ARNOLD ERICKSON.

An unusual and very interesting story, Arnold. We have always contended just what you say, that a skunk is friendly as a cat, and just as safe if you handle him gently. I think, too, that you did the right thing in letting the pair go.



No. 1200
New price—$16.50. South Bend Level-Winding Anti-Back-Lash-Reel. Formerly $25.00.

New—low prices

THAT same fine finish, high quality and mechanical perfection, consistent with South Bend and Oreno Reels for years, still holds . . . but *prices have been lowered.*

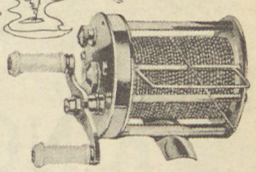
You can now own a South Bend Reel . . . level-winding, anti-back-lash . . . for $16.50; or an Oreno Reel . . . level-winding, anti-back-lash for $8.50.

More than 150,000 of these reels sold, is a worthy testimonial of their surpassing fineness. Increased production alone is the reason for lowered prices.

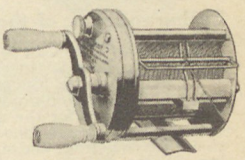
Ask most any dealer to demonstrate the famous South Bend anti-back-lash feature. You'll see then why back-lashes, snarls, tangles are impossible. Note too, the level-wind.

These two highly developed features have made South Bend Reels the acme of perfection for casting. To own one is to know the greatest casting joy it is possible to have.

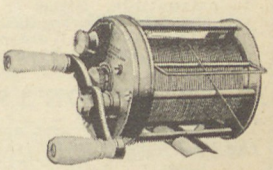
Send for this Book—FREE
"Fishing—What Baits and When", written by noted sportsmen writers. Contains interesting, helpful fishing data. Tells about our annual $2,000.00 Fish-Photo Contest—open to all. Write for your copy today.



No. 1131
New price—$10.00 South Bend Anti-Back-Lash Reel. Formerly $12.50.



No. 1000
New price—$8.50. Oreno Level-Winding Anti-Back-Lash Reel. Formerly $15.00.



No. 900
New price—$6.50. Oreno Anti-Back-Lash Reel. Formerly $7.50.

SOUTH BEND BAIT CO.
1313 High Street · South Bend, Ind.

H. De Vry of Dowagiac with 20 lb. Musky — one of many taken in a Heddon testing and proving trip for "Ace" and "King" baits.

Sensational Feature Bait of '26

Heddon-Stanley "ACE"

½ ounce

First solid metal body bait with full wooden minnow wobble.

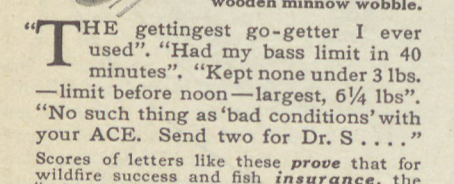
"THE gettingest go-getter I ever used". "Had my bass limit in 40 minutes". "Kept none under 3 lbs. —limit before noon—largest, 6¼ lbs". "No such thing as 'bad conditions' with your ACE. Send two for Dr. S . . . ."

Scores of letters like these *prove* that for wildfire success and fish *insurance*, the "ACE" is IT! It's all the same — beginner or expert—they ALL get them. Overwhelming records in waters supposed to be "fished out." Pike, Musky, Bass—the "ACE" looks alike to all game-fish—something to be grabbed quick. And how it does *stay* grabbed! You hold'em.

Get this top-record bait — combining every known advantage of metal lures with true minnow "action". Triple attractiveness of glittering metal body, flashing spoons, brilliant fly. Use it "as is" or add porkstrip — and count your string.

The "ACE" casts like a bullet with any weight of rod—can't turn or twist line—goes to any depth—weedless—and holds like a bulldog. Indestructible. Body and blades in two finishes—copper or nickel. Red, red-and-white, yellow or black fly. Complete with weed guard and leader, $1.00

The Heddon-Stanley "KING"



¾ ounce

TREBLE hook if wanted.

Fitting follower of the mighty "ACE"

HEDDON'S newest — carrying the successful "ACE" principle still further. Longer, more blade-like body in violent wobbling action produces the glittering flash responsible for the acknowledged success of old-fashioned "spoon" baits—without their line-twisting, fouling or difficult casting. Shoots straight to the mark — goes any depth or on surface for musky. Body shape makes it weedless; always rides right without twisting. Excessively lifelike action — with or without porkstrip trailer.

"KING" in name, action and results. Indestructible. Nickel or copper, red or red-and-white fly: regularly with single hook, TREBLE hook if ordered. With wire leader attached $1.00

JAMES HEDDON'S SONS, DOWAGIAC, MICH.

"The Box with the Red Edge" — seen and recognized in more tackle stores and angler's kits than any other feature in the fishing world.

IN 15 years of Field & Stream's National Contests more prize Bass have been taken on Heddon baits than on all similar lures combined.

15TH YEAR

Heddon Fishing Tackle

Genuine Dowagiac

Scientific Angling

National Association of Scientific Angling Clubs

Edited by FREDERICK J. LANE

1926 NATIONAL BAIT AND FLY CASTING TOURNAMENT

THE 18th Annual Tournament of the National Association of Scientific Angling Clubs will be held at Philadelphia, Pa., August 19-22, 1926, under the auspices of the National Association and at the invitation of the Sesqui Centennial Committee.

Headquarters will be at the Benjamin Franklin Hotel and there will be contestants from all parts of the country including such cities as San Francisco, Portland, Ore., Denver, Chicago, Indianapolis, Columbus, Cleveland, Akron, Buffalo, and numerous cities nearby.

Among the more prominent casters will be Wm. Stanley, Geo. Chatt, Fred Arbogast, Deane Reese, Goodwin Granger, Al Foss, A. A. Trimble, Otto Peters, Walter Newcombe and the President of the National Association, Ed. Sutter.

There will be ten events for the men and two for the ladies. The distance Bait events will be cast on a large, open field and the Fly and accuracy bait events will be cast in the large concrete swimming pool near the south end of the Exposition Grounds and from every point of view will afford the best possible conditions for casting under which any tournament could be held.

The schedule of events is as follows:

August 19th—5 oz. Distance Fly; 5 oz. Accuracy Fly; ¼ oz. Accuracy Bait.

August 20th—Salmon Fly; Dry Fly Accuracy; Dry Fly Accuracy at unknown distances.

August 21st—½ oz. Distance Bait (on Field); Fisherman's Plug Distance (on Field). LADIES' EVENTS AT POOL—½ oz. Accuracy Bait; Fisherman's Plug Accuracy.

August 22nd—½ oz. Accuracy Bait; Fisherman's Plug Accuracy.

There will be a solid gold Sesqui Centennial Medal for each first place and numerous merchandise prizes for succeeding places in each event.

There will also be a very handsome Sesqui Centennial Celebration cup for the National All-round Championship and some suitable prizes for the Ladies' events.

The Pool is several acres in area of clear, cold spring water and has a smooth concrete bottom which will permit the moving of casting platforms in any direction to meet the wind conditions. There will be ample space to cast two divisions and to cast more than one event at a time, also for practice work of any kind, without in any way interfering with an event that is being cast.

Never in any other contest held by the National Association have conditions been so ideal.

Every contestant and visitor will receive a pass to the Centennial grounds and for those who wish there will be enough sight seeing and attractions to keep the most active busy.

The entertainment features offered by attendance at the Tournament are practically without limit. Every possible taste will be catered to in the Centennial grounds since many countries will have exhibits of all kinds and descriptions and for those who want fun and amusement there will be the "Gladway," which is due to become as famous as the "Midway" of the Chicago Fair. Everyone will want to see the famous Liberty Bell and Hall. They will be but a few squares from the headquarters.

After the Tournament it will be a very easy matter to go to Atlantic City, "The Playground of the World," and from there to the surf bathing and fishing and also the deep sea fishing; it is but a matter of changing one's clothes.

Through the co-operation of the Surf Angling Clubs it is proposed to take as many as care to arrange for it, on a trip down the coast for some of the best surf fishing to be had on the Atlantic Seaboard, also some may care to go out on the briny deep and indulge in some deep sea fishing, that, too, can be arranged with the greatest ease; again, those who would care to try their rods on the giant weakfish of the inlets have but to express the wish and it will be planned.

There remains little doubt, but that this will be one of the most successful tournament and pleasure trip combinations ever held.

JACK SCHWINN,
Chairman, Tournament Committee,
56 Clinton Street, Newark, N. J.

Easterners Tuning Up for National Tournament

UNDER the leadership of George R. Babylon, chairman of the bait casting section of the Baltimore Chapter of the Izaak Walton League of America, who might be called the "father of bait casting in Baltimore" on the grounds that it was he who started things moving toward tournament casting in this section. The casters of Delaware and Maryland participated in the sixth annual bait-casting tournament of the Delaware Rod and Gun Club. The coming tournament at Philadelphia has aroused much enthusiasm among the local casters who are

planning to give their western brothers some interesting competition.

Following are details of the contests:

Wilmington, Del., May 16.—In a driving rain that wet the participants to the skin, transformed the casting green in Shellpot Park into puddles and pools, Baltimore, Westminster, Wilmington and New York bait casters matched skill in handling rod and reel this afternoon.

It was a wonderful day for puddle ducks. Fish could have sported in pools where dry lawn should have been, but it wasn't weather for bait casters. Consequently, there were no records broken, but handicapped by the worst possible weather conditions, soaking grounds, wind and poor visibility the lead slingers did remarkably well under the circumstances.

HOBBY IS SECOND

Harry A. Hobby, of the Forest and Stream Club of Westminster, captured second prize in the accuracy event, with a score of 97.2 for the ¼ ounce, ½ ounce and ⅝ weights. Dr. N. L. Niedenthol, Baltimore, won fourth prize, with an average for the three events of 97, and George Babblin, Baltimore, finished eighth in the accuracy contest, with 96.

Guy W. Steele, of Westminster, who was suffering from a heavy cold, was forced to quit the contest after making a good average and was well up in the lead at the end of the one-half ounce accuracy event.

The tournament, which is the sixth annual affair of the kind of the Delaware Rod and Gun Club, demonstrated that Baltimore and Maryland casters have the "stuff" that is necessary for tournament work. They were not outclassed.

ACCIDENT PROVES COSTLY

Hobby in the distance event was leading the field on his first two casts. Unfortunately he broke his line on the third cast and this hurl counted him nothing. Had he made even a moderately long cast on his third throw his average would have been greater than the winning score.

The final score in the way they finished were as follows:

ACCURACY EVENTS

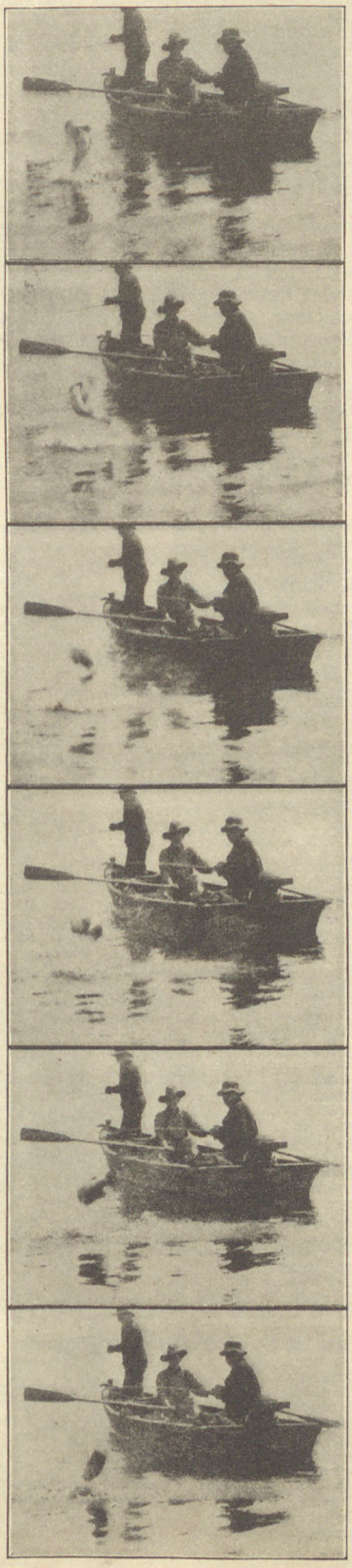
Willard Schmidt, Wilmington	97.5
H. L. Hobby, Westminster	97.2
William Springer, Wilmington	97.1
Dr. N. L. Niedenthol, Baltimore	97
G. W. Wilhelm, Wilmington	97
S. Wilhelm, Wilmington	96.4
Otto Cornell, New York	96.2
George Babbylon, Baltimore	96
Charles Thomas, Wilmington	96
Samuel Hackendorn, Wilmington	95.8
Samuel Beacher, Wilmington	95.7
James Wanstall, Wilmington	95.4
Randolph Phelps, Wilmington	95.3
George Sculler, Wilmington	93.8
Charles Edward, Wilmington	93.2
Harry Hayman, Wilmington	93

CAST FOR DISTANCE (⅝ OUNCE).

	Feet
Phelps	166
Hackendorn	150
S. Wilhelm	129
Smith	122
Beecher	119
Hobby	117
Wilhelm	113
Schuller	111
Wanstall	111

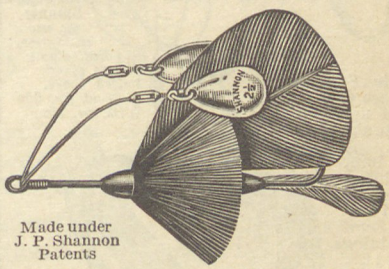
THE SHANNON GETS 'EM

THE BARBLESS HOLDS 'EM



HERE IS THE PROOF

These Photographs of a leaping 9 pound Bass are taken direct from a moving picture film, showing the capture of the bass. These are the most remarkable pictures of a leaping bass ever taken. They clearly demonstrate that fish do not necessarily get off a **Jamison Barbless Hook** on account of a slack line. This fine bass was taken by the man in the rear end of the boat. A close inspection of the first four pictures will show his rod is straight, indicating slack line. The last two pictures show the rod slightly curved, indicating a tight line. Although it required only ⅖ of a second to take these 6 pictures, yet the fish is in 6 different positions. In spite of this amazing speed and the great power of this big bass, he was unable to get rid of the hook, although he had slack line.



Made under J. P. Shannon Patents

THE SHANNON TWIN SPINNER

Either Barbed or Barbless as Desired

A Barbless Shannon caught this fish. It's a real bait. It gets fish when others fail. It is wonderfully attractive, it is weedless, but yet a sure killer. Literally hundreds of thousands of anglers are using it. Why not you? Made with Red, Yellow and White Feather Fly and Natural color and Red, Yellow and White Bucktail Fly—**Price each 85 cents.**

HELP SAVE THE FISHING

Patented in U. S. and Great Britain, 1924

USE JAMISON BARBLESS HOOK

No matter whether you do still fishing with worms or minnows, or whether you are a bait caster or a fly caster you can use the barbless hook to advantage for we have a hook or bait or a fly for every kind of fishing. It holds any kind of fish taken in any way and does no injury. Small fish can be shaken off without touching with the hands. Start in now to help save the fishing by using the Barbless.

All leading experts and authorities recommend the use of the Jamison Barbless from personal experience. Get our catalog and read their letters.

Our catalog lists Trout and Bass Flies, Artificial Baits, Plain Ringed Barbless Hooks and Hooks tied to gut. Also Casting Lines, Weedless Hooks, etc.

Show these pictures to your friends.

The W. J. Jamison Co., 739 So. California Ave. Dept. W, CHICAGO, ILL.

Try Lou's Lures this coming trip!

The Eppinger Dardevle Lures which have won deserved popularity among anglers everywhere, now come in four sizes and nineteen color combinations.

The Husky Devle ($1.50) is for Muskies and Lake Trout. Dardevle (95c) does well for trolling and casting with average steel rod. Dardevlet (85c) and Imp (75c) are still smaller sizes for lighter tackle and skilled casters.

Dardevle
"The Old Boy Himself"
3½" long, 1⅛" wide, 1 oz.
Price 95c

Notangle Spinner
for use with flies, Nostealums or other baited hooks.
Without fly. 50c
With fly, 75c

Notangle Spinners afford ease of alteration of flies with complete absence of fouling. A killing lure. Ten different color combinations. Send for catalog showing them in colors.

Nostealums are admittedly unequalled for use with all live and natural baits—insects, minnows, grubs, etc. Baits can be attached without removing hook. You don't injure or squash the bait. Just insert the pin and clasp it. Send for catalog.

Nostealum
No. 3. 15c
Actual size. (Showing use with minnow.)

Nostealum
No. 8. 10c
Actual size. (Showing use with grasshopper.)

Nostealum
No. 14. 15c
Actual size. (Showing use with house fly.)

"Osprey" Lines

are waterproofed so they won't rot, are braided so they shoot through the guides like greased lightning, and are guaranteed to stand anything excepting rough or cracked guides. "Osprey" lines have stood the test for fifteen years.

Canadian Distributors:
Canada Needle & Fishing Tackle Co., Ltd.
76 West Wellington Street, Toronto

Lou J. Eppinger
"Outfitters of Sportsmen"
Dept. W, 131-135 Cadillac Square
Detroit, Mich.
"Gateway to Canadian Game Fish and Big Game"

Niedenthol	87
Spring	83
Babylon	73

SCORES OF ILLINOIS CASTING CLUB

The Illinois boys are getting in shape for the coming tournament as evidenced by some of their recent scores. Willman, the younger Chatt, the two Ebermans, Stanley, and DeGarmo seem to head the list. Weather conditions have not been entirely favorable to the casters of Chicago, but June will bring the good scores along with the roses.

It is with deep sorrow that we announce the death of Myron H. Cooley, one of Illinois' oldest members and a friend of all who knew him. No one worked harder for the good of the game and his club. He was always ready to lend a hand in the performance of those duties so necessary though not spectacular, quite in keeping with his modest quiet demeanor. Mr. Cooley met his death accidentally, being struck by an automobile May 18.

Following are tabulations of events up to going to press:

ILLINOIS CASTING CLUB
SCORES FOR SUNDAY, MAY 9TH, 1926

⅝ oz. Accuracy Bait	Per cent
Willman	99.9
Stanley	99.7
W. A. Eberman	99.6
H. Chatt	99.5
H. B. Eberman	99.4
McCandless	99.2
Vong	99.1
Fridenberg	99.0
Bennington	98.9
DeGarmo	98.8
Brooks (guest)	98.8
Watson	98.8
Mrs. Williams	98.7
Randle	98.6
Kromphardt	98.6
Bornholt	98.6
Williams	98.5
Mathie	98.5
McCombs	98.3
Cooley	98.1
Mrs. Willman (guest)	98.1
Miller	98.0
White	97.8
Young	97.5
Clapp	97.5
Armstrong	96.4
Zix (guest)	92.8

½ oz. Accuracy Bait	Per cent
Mathie	99.0
H. Chatt	98.8
W. A. Eberman	98.8
McCandless	98.6
White	98.6
Lloyd	98.2
Willman	98.2
Bornholt	98.0
Williams	98.0
Vong	97.9
H. B. Eberman	97.9
DeGarmo	97.8
Fridenberg	97.7
Solomon	97.6
Cooley	97.5
Bennington	97.3
Young	97.2
McCombs	97.2
Kromphardt	96.7
Allison	96.2
Armstrong	96.1
Miller	95.8

5¾ oz. Dry Fly Unknown Distance	
DeGarmo	99.4
Willman	99.4
W. A. Eberman	99.3
Fridenberg	99.3
McCandless	99.0
H. B. Eberman	98.8
Bornholt	98.7
H. Chatt	98.6
Vong	98.4
Mathie	97.5
Cooley	97.4
Solomon	94.2

¼ oz. Distance Bait	Average	Long Cast
Willman	202	224
Stanley	176⅛	236
H. B. Eberman	175⅛	184
Bornholt	153⅜	205
McCandless	153⅛	155
Bennington	152⅜	167
DeGarmo	148	158
W. A. Eberman	127⅛	177
Mathie	122	169
White	119⅛	222
Cooley	116	176
Kromphardt	115⅜	139
Fridenberg	109⅛	187
Williams	107⅛	121
Vong	101	163
H. Chatt	73⅛	184
McCombs	60⅜	120

ILLINOIS CASTING CLUB
SCORES FOR SATURDAY AND SUNDAY
MAY 15-16, 1926

SATURDAY

¼ oz. Accuracy Bait	Per cent
DeGarmo	98.6
Bennington	98.5
W. A. Eberman	98.5
H. B. Eberman	98.4
Stewart (guest)	98.4
McCandless	98.4
Mathie	98.3
Cooley	97.9
Randle	97.4
Solomon	96.3

⅝ oz. Plug Distance	Average	Long Cast
Stanley	234⅜	257
Willman	214⅛	238
H. B. Eberman	188⅜	203
DeGarmo	165⅛	182
Cooley	162⅛	193
Mathie	139⅜	190
Solomon	128⅛	162
W. A. Eberman	125⅛	222
McCandless	109⅜	170
Bennington	103⅛	164
White	48⅛	151
Vong	46⅝	211

SUNDAY

Dry Fly Accuracy	Per cent
DeGarmo	99 4/15
Willman	99 4/15
Bornholt	99 1/15
McCandless	99
H. Chatt	98 11/15
Vong	98 9/15
Fridenberg	98 4/15
W. A. Eberman	98 3/15
Cooley	98
H. B. Eberman	97 14/15
Mathie	97 14/15
Solomon	96 3/15
Allison	96 1/15

Distance Fly	Average	Long Cast
H. Chatt	103⅓	115
W. A. Eberman	98⅓	105
DeGarmo	95	100
H. B. Eberman	87⅓	90
Cooley	76⅔	80
Willman	75	75
Fridenberg	73⅓	75
McCombs	61⅓	64

⅝ oz. Plug Distance	Average	Long Cast
Willman	220⅛	229
DeGarmo	194	200
Bornholt	183⅓	215
W. A. Eberman	177	208
H. Chatt	169⅔	228
Cooley	158⅓	216
McCandless	152⅜	186
H. B. Eberman	151⅜	207
White	140⅛	236
Stanley	137⅜	241
Vong	134⅜	231
Bennington	133⅜	163
Fridenberg	116⅛	210
Mathie	103⅜	182
McCombs	98⅓	154

¼ oz. Accuracy Bait	Per cent
Bornholt	99.0
Mathie	98.8
Willman	98.8
Williams	98.2
W. A. Eberman	98.2
Vong	98.2
Friedenberg	98.0
H. Chatt	97.9
H. B. Eberman	97.8
DeGarmo	97.4
Mrs. Williams	97.2
Cooley	97.2
Armstrong (½ oz.)	96.9
Solomon	96.7
McCombs	96.4
Bennington	96.3
Allison	96.3
Kromphardt	95.7

CHICAGO FLY INAUGURATES "TWILIGHT SHOOT"

We hold what we think a quite attractive "Twilight Shoot," each Wednes-

day evening, called at seven, and at our last meeting we had twenty-six casting, ⅝ oz. plug. Sides are chosen, a captain is picked for each team, and each member of the winning team is awarded a prize.

We have been quite fortunate, too, in adding new members to our list—some of the boys have left for trout fishing; those who have returned report fishing only fair.

We will welcome any member of the Izaak Walton League at our Pool—we are always ready to help any friend in bait or fly casting.

SCORES OF MAY 15-16

¼ oz. Accuracy Bait

Carl McCarthy	99.4
E. H. Burlingame	99.3
F. L. Leach	99.1
Con Nordholm	98.9
H. Dryer	98.8
R. Clarkson	98.7
F. C. Kleinfeldt	98.5
A. Arado	98.5
R. A. James	98.5
H. A. Dever	98.5
C. Nordholm, Jr.	98.5
A. Fieldse	98.2
L. Hodges	97.8
C. C. Wardell	97.5

¼ oz. Distance

A. D. Arado	154
F. Leach	140
C. McCarthy	147
F. C. Kleinfeldt	101
W. Jamison	148
R. Clarkson	140

Dry Fly Accuracy

A. D. Arado	99.9
E. H. Burlingame	98.5
R. A. James	98.2
F. Leach	99.1

Distance Fly

W. Jamison	96
F. C. Kleinfeldt	95
A. D. Arado	90
F. Leach	89

AUTO HEADLIGHTS USED TO DECIDE CASTING FINALS

All records for the number of competitors in any event of the St. Paul Fly and Bait Casting club were broken Wednesday night at Phalen Park, when 23 persons competed in the first accuracy bait event.

Wednesday night the distance fly event was completed long after dark and it was only with the aid of automobile headlights and spotlights that the judges were enabled to see the fly.

Fifteen members participated in the distance fly event, the first fly competition of the season, and Paul W. Feist, with an average of 89 2/3, walked off with high honors. His average bettered his season average for 1925 by close to two points.

Ben Wittick took second honors in this event with a 79 average and A. C. Brockwell, clad in a flaming red jacket and casting the fly like a master, landed third place with an average of 76 1/3, with "Big" Ed Tischler fourth, scoring a 70 1/3 average.

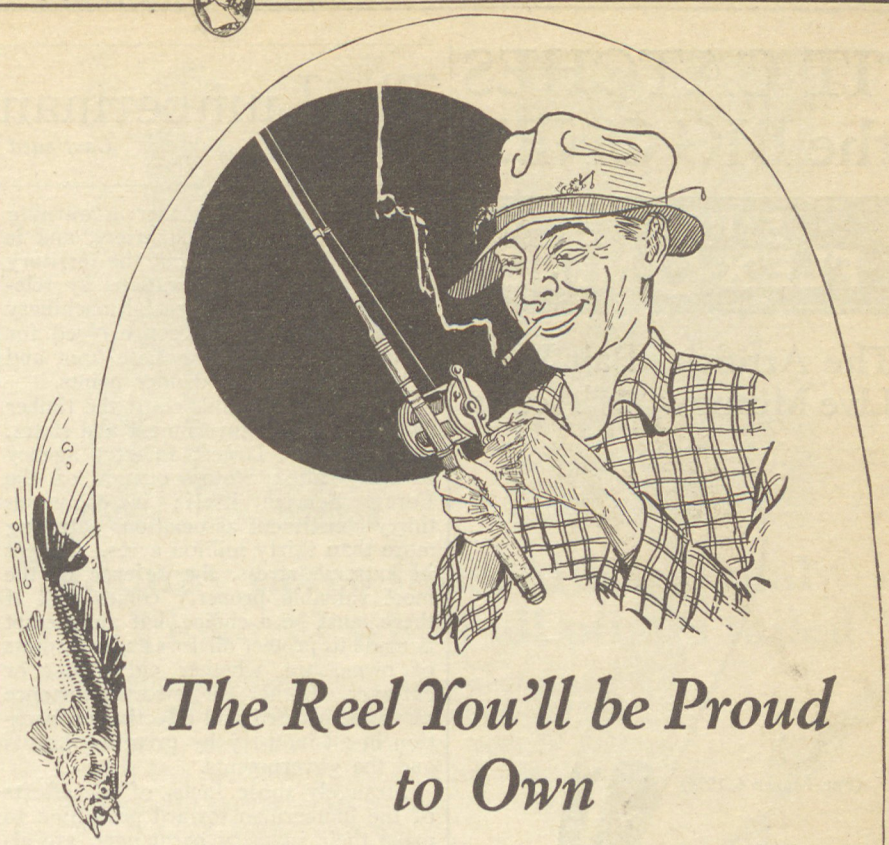
Five ties resulted in the five-eighths ounce accuracy bait event, with Roy Wittick and E. L. Steidel heading the field. They each finished with 98.6 scores.

Following are May 19th's averages:

Distance Fly Competition

Paul W. Feist	89⅔
Ben Wittick	79
A. C. Brockwell	76⅓
Ed. Tischler	70⅓

(Continued on page 47)



The Reel You'll be Proud to Own

WHEN you unpack the old bait box and pull out a Meisselbach, you're established as a man who knows good tackle.

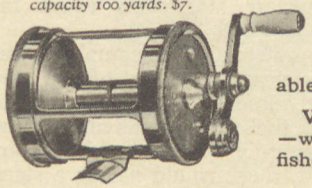
Meisselbach "Takapart" Reels have been the preferred reels of experienced fishermen, tournament winners, casting clubs for many years, and here's why—

Made with the care and precision of a watch and subject to 150 inspection operations, and guaranteed for all time against any defect in material or workmanship.

No vibration and no screws to work loose, because tubular frame is cut from one solid piece.

Made of nickel silver and brass with everlasting phosphor-bronze bearings.

The standard Meisselbach "Takapart." Quadruple multiplying, tubular frame, capacity 100 yards. $7.



Bar over which line runs ground and polished and not rough as it left the machine.

No wonder that wherever there's fishing, Meisselbach is known and prized as the finest, most dependable reel that money can buy.

Write for your copy of the "Bite Book"—what makes 'em bite—by a famous fisherman. It's yours for the asking.

The A. F. Meisselbach Mfg. Co.
Sales Offices and Factory: Elyria, Ohio
14 Taylor Street

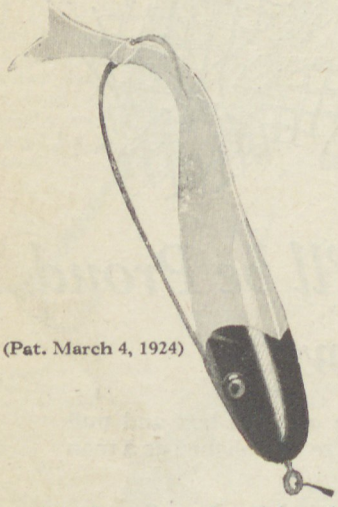
Meisselbach

The Veteran Reel for Veteran Fishermen

"IT CATCHES the BIG ONES"

STREICH'S FLEX-O-MINO

The Artificial Bait With Live Minnow (Body and Tail.) Action



(Pat. March 4, 1924)

Metallic head and rubber body.

Equipped with swivel which prevents twisting of line.

Standard casting weight, weighs 5-8ths of an ounce and is equally efficient as a trolling bait.

Swims in one position only, right side up, being properly balanced and is practically weedless.

Hook is detachable and can be replaced at a cost of five cents each.

The thrills of a catch of one outing will more than re-imburse you for the investment.

PRICE $1.25 EACH

Made in 3 styles:

"A"—Red head and white body
"B"—Copper head and white body
"C"—Nickel head and white body
"D"—Brown head and dark gray body

Your Dealer Can Supply You

Or your order, accompanied by remittance of $1.25 each, will receive prompt attention.

STREICH MANUFACTURING CO.
423 N. Chicago St. JOLIET, ILL.

The Lumberman and Conservation

Continued from page 9

assistant wardens. Further, a warning is sent to central headquarters, and is at once spread throughout the territory and to all logging operations by telephone or telegraph. Special machinery and equipments have been evolved for preventing and fighting these fires, and it is concentrated at danger points.

At present this alliance of the timber owners, Federal government and states, constitutes the largest forestry agency in the United States, outside of the Forest Service itself; it comprises thirty constituent associations patroling more than thirty million acres. Except in extreme stress, the defense of the most valuable property comes first if there must be a choice, but an attempt is made to protect all forests, regardless of ownership, whether old timber or cut-over. Rather a noteworthy instance of whole-hearted and effective cooperation in all industry by private interests and the governments.

Strangely those facts, of the efforts of the lumbermen toward protection to make their industry permanent, are almost unknown even here in what is the greatest forest country in the United States. The propaganda about destruction, vandalism, has taken too deep a hold. Almost all of the speakers and writers striking that note are honest in their statements, not moved by malice, well-intentioned, but lacking information. It is my observation that the lumberman is largely responsible for this condition. In most cases his interest seems confined largely to the forests; he has not been organized to combat or even challenge these misleading statements, and so they have gone on without question and naturally have been accepted. He has been perfectly willing to cooperate in preservation and fire fighting, but until recently it had not occurred to him to cooperate to fight unfair statements about his work.

As an outstanding example, some twenty-five years ago, one of the men most widely known as a conservationist, made the public statement that within twenty-five years or thirty years at the most, there would not be a stand of merchantable timber of real importance remaining in the United States. Yet the United States Senate Committee on Reforestation, appointed to establish a comprehensive national policy to insure a perpetual supply of timber for the use and necessities of the citizens of the United States in its report in 1924, said regarding industry on the Pacific Coast states:

"While there is some conflict in testimony as to the amount of timber in this region, it probably is not far from 1,100 billion board feet, over 90% of which is in virgin stands." . . .

"The original forest area in the Pacific Coast states is estimated at 77 million acres, of which 59 million acres still remain as forest or potential forest land. . . .

"At the present time there are not far from 40 million acres of virgin forests, while the areas both logged off and young growth land not converted into farms, aggregate about a million acres. . . .

"In a region which still contains such a lot of virgin timber, it is but natural that progress in reforestation should be limited. Nevertheless, certain conditions in the Pacific Northwest are unusually favorable to timber production, as a commercial enterprise. On the greater part of its forest land a natural regrowth is assured if fire can be kept out. The rate at which timber grows in the Redwood belt of California, and in the better portions of the Douglas Fir belt in Oregon and Washington, probably exceeds that of any other portion of the United States."

There is one answer to the statement of one well-intentioned and honest conservationist, who confused conservation with destruction. Its date is 1924.

The Northwest lumberman is a conservationist; it is to his interests to save these forests, to protect them and make them permanent, and here is a definition of conservation to which every progressive lumberman on the West Coast subscribes literally:

"Wise forest protection does not mean the withdrawal of forest resources, whether of wood, water or grass, from contributing their full share to the welfare of the people, but on the contrary, gives the assurance of larger and more certain supplies. The fundamental idea of forestry is the perpetuation of forests by use. Forest protection is not an end of itself; it is a means to increase and sustain the resources of our country and the industries which depend upon them."

That was made by a practical conservationist, a thinking man, one whose opinion on that subject, I believe, will be accepted, without question, by every fair-minded advocate of preservation of our forests. He was not a lumberman. Theodore Roosevelt was the man who wrote that, and I believe it meets with the practical approval of every lumber operator in this territory.

Of course, it must be understood that the West Coast operators have had the benefit of the tragic experience of the Eastern lumbermen. History has shown them the results of the old days' carelessness in logging and carelessness in fire protection in those districts. Some of the Western lumbermen have themselves seen the forests of Wisconsin, Minnesota and Michigan depleted, and those very men are the strongest for practical conservation on this Coast. In their companies you will find forestry departments with trained foresters at their head. You will find them leaders, not only in reforestation, but also in fire protection. They are the ones

who are most outspoken in their policy of making these forests a permanent asset and source of permanent supply of good lumber for the people of the United States.

The Douglas Fir which constitutes the greatest proportion of the standing timber on the Coast—about 70 per cent—strives to reforest itself as does no other species. Seeds from the growing trees carried by winds and the birds will lie dormant in the ground for several years until the surrounding trees have been cut away. Then, as the sunlight comes and they respond to the warmth and sun, thousands upon thousands of seedling firs show their heads. There is where the greatest necessity for fire protection lies. If the flames can be kept away from these seedlings, natural reforestation is on its way, and before many years a strong growth of Douglas Fir has reappeared. Some foresters believe that if this one growth can be protected against the flames, with the present system of unified fire protection, that within a few years as much new timber will be grown as the lumberman today is actually cutting.

Perhaps some of the students of our forest problems in the East understood the situation even better than they do here on the Coast itself. As an instance, the New York State College of Forestry at Syracuse, recently sent out a public statement saying in part:

"The West is seventy-five years ahead of the East in handling forest properties. Circumstances have helped the West. The epochal transcontinental march of the lumber business, which began to gain further headway about 1850, left desolation in the East, Central West, and South, but to the West it brought a new order of things. . . .

"Seventy-five years ago nobody thought of saving trees. Today many lumbermen of Oregon, Washington and California, not only conserve their forest properties, but in some cases have begun reforesting on a scale that by 1930 will provide for planting areas more than equal to the land annually cut over. Not only lumbermen, but the people generally, are taking part in forest preservation and forest production.

"The West has profited by the experience of the East, so the West will always have their forests. Due to the natural course of events, the East lost one of its great resources, but the forests of the East may be brought into being again by following the enterprise shown by the people of the Pacific Coast."

That statement, bear in mind, comes not from the West Coast lumbermen, but from the New York State Forestry service.

"The West has profited by the experience of the East, so the West will always have their forests."

It is the aim of the West Coast lumberman to make these forests perpetual. To that end he is expending thought, time and money, and is planning his great operating investments accordingly. Instead of the old logging roads as they existed in the Eastern forests,

"Shimmy takes Bass, Muskies and Pickerel when all others failed"

"You will be interested in these photos, as your Shimmy Wiggler was used in catching these fish.

"The bass weighed 5 and 5¼ pounds respectively and the muskies 11 and 12 pounds.

"They were all caught by me in Lake Traverse, in northeastern Algonquin Park, Ontario.

"I was successful in catching both Bass, Muskies and Pickerel in this lake with your Shimmy Wiggler when all other kinds of lures failed."

Very truly yours,

J. A. M. PROUT,
Cleveland, O.

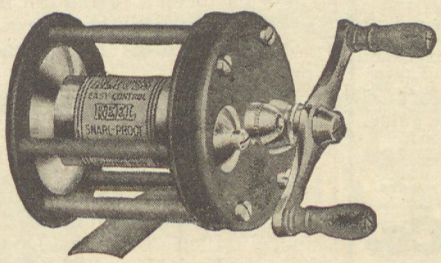
SHIMMY WIGGLER
½ or ⅝ oz., $1.00

JAZZ WIGGLER with Flies

75c

No. 10
½ oz. ⅜ or ⅝ Hook
No. 9
⅝ oz. ⅝ Hook Only
Tied with the following flies:
BUCKTAILS
White, Red, Brown, Yellow, Orange, and Black
FEATHERS
Solid Red, Solid Yellow, Black with White Streamers.
Very effective, with small pork strip attached to curve of hook.

JAZZ WIGGLER
½ or ⅝ oz., 50c



"Never a back-lash—every cast perfect—simply uncanny!"

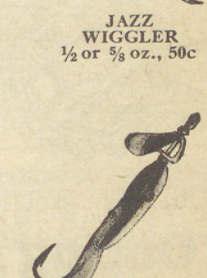
So says an angler who used one of these reels on a two-weeks' fishing trip.

This *snarl-proof casting reel* has a simple centrifugal device revolving within the reel arbor—a little policeman who raises his hand at the proper moment and stops a snarl from stepping in.

Make this test at your dealer's:—Have him rig up this reel with line and if there is not room for you to actually cast, just hold the reel in one hand with thumb off of line, and with the other give the end of line a hard jerk. You will see that while the line will unwind and *apparently* snarl, it can be readily stripped off, rewound and ready for another demonstration. Then try this with *any other reel* and *see what happens.*

Like all other reels, the Al Foss Easy Control Bait-Casting Reel will "back-lash" under careless handling. But the line *will not become snarled,* it will readily strip from the spool for rewinding and continued casting.

If dealer will not supply you, send $25.00, and try reel 30 days. Then, if you want to worry along with your other reels, send it back, and money will be returned.



ORIENTAL WIGGLER
½ or ⅝ oz., $1.00. All Red, All White, or Red and White

AL FOSS

Originator, Patentee and Manufacturer of the Pork Rind Minnow

9526 Quinzy Avenue **Cleveland, Ohio**

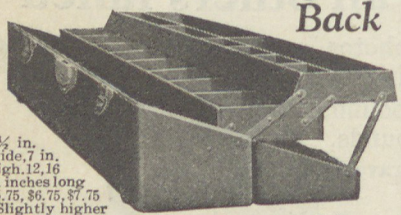
45c—Bass, Musky and Fly Spinner sizes

The Cannibals Will Get Him

—He's a Crip

Game fish are cannibals—the bigger they get, the worse they are. But it's cripples that look best to them—easiest to catch. Get a Bassy-Getum. Watch that crippled action. Ever see its equal? Look at the life-like shape—and the coloring! No wonder tackle-busters can't resist the Bassy! But they can't bust him. He's tough—made of hollow bronze. Comes in 6 colorations—95c each.

The Trays Swing Back

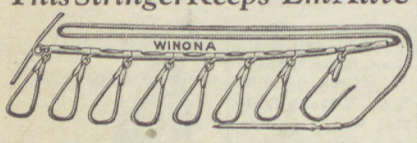


6½ in. wide, 7 in. high, 12, 16 21 inches long $5.75, $6.75, $7.75 (Slightly higher west of Denver)

(*Pats. appl. for*)

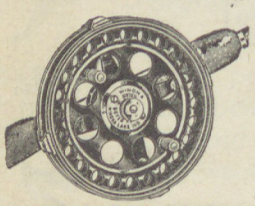
As you lift the lid, the trays automatically swing back. Every compartment immediately available. Ask your dealer to show you Outing's new Cantilever Tray Tackle Box. You, yourself, will say it has no equal for convenience, construction and beauty.

This Stringer Keeps 'Em Alive



The Winona "Keep Fish Alive" Stringer is made up of separate snaps on a cord stringer. Hook the snap through both lips and keep your catch alive until ready for the frying pan. 75c.

A Reel That Spools Itself



No complicated mechanism. Sturdy but light running—noiseless. Has a practical automatic brake. And you thumb the hub—not the spool. Fits any casting rod. A Winona product. $7.50 with line guide. $5.00 without.

The Outing line includes lures, rods, tackle boxes, folding metal decoys and other outdoor equipment. We'll gladly send you a folder showing you the complete line. It's yours for the asking.

Outing Mfg. Co.

558 Jackson Blvd., Elkhart, Ind.

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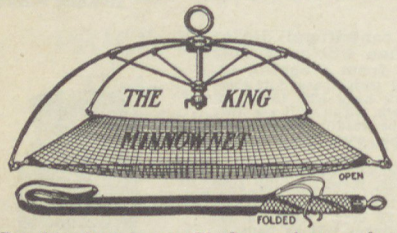

Gets Live Bait for the Big Ones—always ready to serve you with fresh live bait for a wonderful day's fishing. Easily carried, 3 sizes—4'x4', $3.25; 3'x3', $2.75; 2'x2', $2.25. At all dealers and guaranteed unconditionally for one year, all broken parts repaired or replaced free. Get one today—you'll be ready to go fishing anytime.

The W. H. Reisner Mfg. Co., Inc., *Mfgrs.*
Hagerstown, Maryland

the logging railways here are almost of standard construction, carrying the heaviest trains and motive power, built as if for all time. The towns themselves are not the lumber camps written about in popular fiction. Instead, they are permanent communities with every public service and equipment, and constructed with permanence always in mind.

The lumber towns and logging camps today bear almost no resemblence to those of the early years. The towns have paved streets, all the public services, splendid school buildings, and in those particulars, surpass most of the communities of similar size in the East and Middle West. Those who would recall the old logging camps of twenty-five or thirty years ago with two tier bunk houses, straw mattresses, could not recognize one of today; iron beds, two men in a room, shower baths, sheets and pillow cases.

"One of my troubles is with some of the old timers," the superintendent of one of these camps told me. "Many of them I knew in the old days, and they drop in here with their blanket rolls ready to go to work, but they complain bitterly about being asked to sleep between sheets and often refuse to do it. They say they know when they are comfortable."

The food served is of the best quality: dining rooms, light and airy and splendidly clean. There is an eight-hour day, and when the donkey engine out in the operations sounds the noon whistle, the men do not turn to dinner pails for their lunch—not in the Western logging camp. There is a train waiting there: everybody climbs on, whether it is only one mile or three, and they are hauled into the central camp, and after the meal are brought back again; the same way in the evening.

Many of the camps have moving pictures, radio, and other forms of amusement for the men after working hours. There has been a revolution in the lumber business, both in care of the employee as well as in the care of the forests.

The lumbermen themselves are not content with natural reforestation of these woods. They realize that that perhaps would be the most important factor in the new growth, but they also aim to establish plantations of cut-over land. Much of the Douglas Fir, Spruce, Hemlock and Red Cedar in this territory grows in rough country, some of it mountainous. Little of the cut-over land is adaptable to agriculture, but all of it according to the Forestry Service is peculiarly fitted for the one purpose of growing timber.

Under the present tax laws it is commercially impossible to go into replanting in its fullest extent. No one can tell what the tax policy of a state may be five years or ten years from now, and to any one investing heavily in replanting, there would always be an impending danger of taxation that would mean confiscation.

The people of Washington themselves realize this condition and they are already taking steps to remedy it.

LOW SUMMER FARES to

WISCONSIN
MINNESOTA
COLORADO
YELLOWSTONE
UTAH
CALIFORNIA
PACIFIC NORTHWEST
JASPER NATIONAL PARK

CHICAGO AND NORTH WESTERN LINE

This is the year to go West

Low round trip fares. Wide choice of routes. Stopover anywhere—Splendid through trains.

Escorted all-expense tours to Yellowstone-Colorado, Zion National Park and California. Ask about them.

Send for booklet "Forty Ways and More to California and the North Pacific Coast" and other descriptive literature.

C. A. CAIRNS, Passenger Traffic Manager
Chicago & North Western Ry.
226 W. Jackson St., Chicago, Ill.

1338

Tells When They're Bitin'

"BROWN'S GUARANTEED FISHING CALENDAR"

Used by thousands to plan their vacation and fishing trips. Figured out on a scientific basis after 17 years of observation and tests.

Write for free folder

BROWN'S FISHING SERVICE
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Learn Photography at HOME

Earn $3000 to $10,000 a year. Prepare quickly during spare time. Also earn while you learn. New easy method. Nothing else like it. Send at once for free book, "Opportunities in Modern Photography" and full particulars. Special offer open now.

INTERNATIONAL STUDIOS, Inc.
Dept. 739B, 3601 Michigan Ave., Chicago, U. S. A.

OLD FISHERMAN'S 1926 CALENDAR

"tells when the fish bite"

USED BY THOUSANDS
PRICE 25¢ 5 FOR $1.00

O.F. CALENDAR
BOX 505 H. STA.
SPRINGFIELD, MASS.

This fall there is to be an election on a constitutional amendment that will make tax laws permitting reforestation with some assurance of commercial return, or at least preventing confiscatory tax laws in the future. In the South, Mississippi and Louisiana, tax regulations have been provided that permit safe investment in reforestation, and many of the lumbermen now represented on the West Coast who own cut-over land in those states are planting thousands of acres of land with pine. Unfortunately, the South waited until most of its timber was cut away before passing this regulation. The Northwest, again showing its progressive and wide-awake spirit, is preparing to lock the stable door before the horse is stolen.

With the government Forestry Bureau, the state Forestry Service, the College of Forestry of the University of Washington, and the lumbermen of this territory all working together, harmoniously, the people of America have every cause to feel that these forests are going to be here permanently, not only for the production of high grade lumber, sufficient to supply the major needs of the country, but also to preserve them for their best recreational and scenic purposes, and that is what the real conservationist wants.

The Western lumberman has asked for no favor as regards his operations in these forests. He does hope that the well-intentioned people who speak and write about conservation of forests will first give themselves the opportunity to learn the facts, to know what is actually being done on the West Coast toward forest protection and forest conservation.

Waltonian Nook

(Continued from page 29)

lem and that is for every Izaak Walton Chapter to plant duck foods. I tried this plan out in Missouri and succeeded in getting about a dozen people interested. This should be taken up by national headquarters and a complete plan arranged. A list of reliable dealers should be compiled with complete planting instructions, price lists, etc. Make it as easy as possible for the chapters to take up the work.

After we restore natural foods for wild ducks in all parts of the country we will secure a more even distribution of the duck crop for they will again spread out over their former range. We will also increase the breeding range which is now confined to a few northern states and Canada. The scarcity of food is also partly responsible for the great loss of ducks from alkali poisoning in Utah and the Northwest. Ducks congregate in these poison waters because they must do so in order to find food. During the past ten years an average of 50,000 ducks died on Malhuer Lake in Oregon during the month of November. I believe this condition could be relieved if the League would make a thorough investigation.

Detroit, Mich.—Officers were elected at a recent meeting of Detroit Chapter. Plans to promote a wild life sanctuary

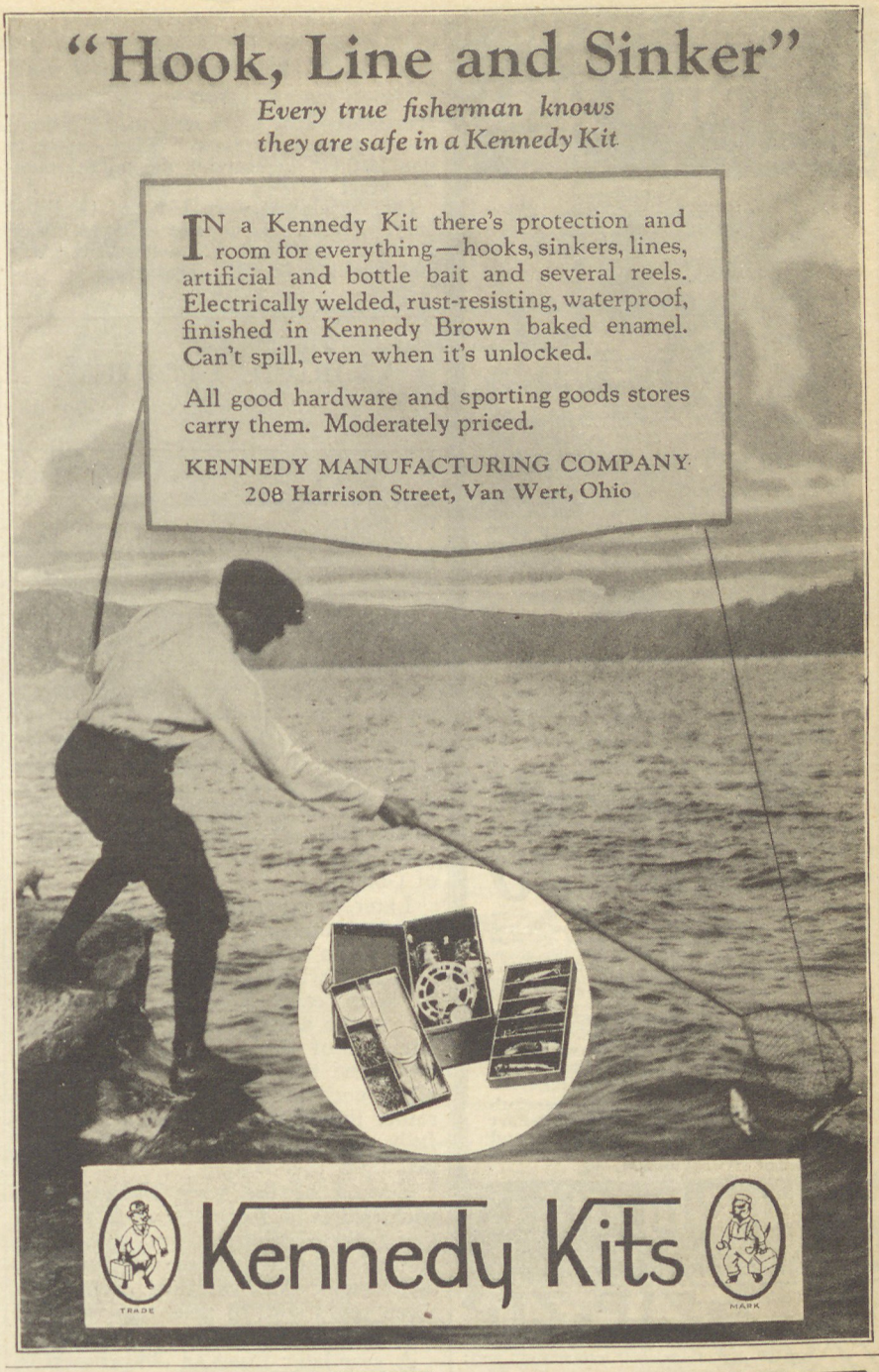
"Hook, Line and Sinker"

Every true fisherman knows they are safe in a Kennedy Kit

IN a Kennedy Kit there's protection and room for everything—hooks, sinkers, lines, artificial and bottle bait and several reels. Electrically welded, rust-resisting, waterproof, finished in Kennedy Brown baked enamel. Can't spill, even when it's unlocked.

All good hardware and sporting goods stores carry them. Moderately priced.

KENNEDY MANUFACTURING COMPANY
208 Harrison Street, Van Wert, Ohio



Kennedy Kits

TRADE MARK

The Box with the Red Edge

Mark of the world's standard quality in angling equipment.

Heddon Fishing Tackle
Genuine Dowagiac

Send for the FREE BOOK of fish pictures in colors with correct tackle.

Fly and Bait Rods
Reels, Lines, Lures.

In 15 Years of Field & Stream's Fishing Contests MORE PRIZE BASS on Heddon Baits than all other makes of wooden lures combined

JAMES HEDDON'S SONS
Dowagiac, Michigan

$100 for a Name

For This New Wiggling Spoon!

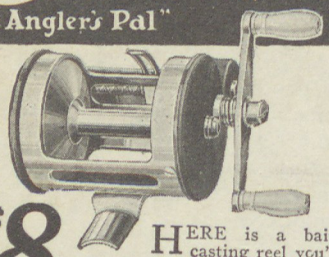
Length of body, 2¾ in.
Weight, ¾ oz.
Price, $1.00

Made of brass—highly nickel-plated. No. S-1 with feathered treble. No. S-2 with hook for Pork Rind.

We will pay $100 to the person sending us the best name for this lure! In addition, tell us why it is a good lure and why fishermen should use it! Try to keep descriptive paragraph within fifty words. In case of tie, the paragraph submitted will be the deciding factor. Contest closes July 31st, 1926. For full information, write Contest Manager,

CREEK CHUB BAIT COMPANY
1327 So. Randolph Street, Garrett, Ind.

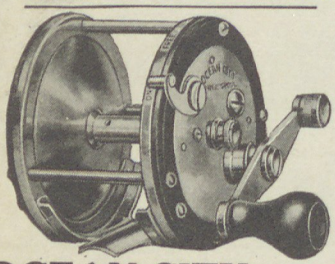
Announcing the
LEVEL-WIND
NEW STRIKER REEL
"The Angler's Pal"



$8

Scientifically made, Bakelite discs. Patented Oil Cups, Phosphor Bronze Bearings, Positive Level-wind mechanism, 80-yard capacity.

HERE is a bait-casting reel you'll just love to touch. A "level-winder" that can be taken apart without aid of tools. Beautiful to look at, strong, efficient! Simplicity itself. Old Big-Mouth Bass, Muskie or Pike will give you a game battle full of thrills, but he'll be yours in the end.



OCEAN CITY
Surf-Casting Reel
It Runs in Oil 250 Yds.
$10

Made with 30 years back of it. Strong, durable, rugged, perfect in balance, dependable and efficient. Positively the best reel of its class on market today. Placement of top bar allows caster greatest freedom in "thumbing" line. German silver with Bakelite end-discs. Patent adjustment spring for adjustment. 300-yd. $12.00

If your dealer is unable to supply you with these Reels, we will mail one or both, insured Parcel Post, on receipt of price.

Send for Reel Catalog C

Made by the manufacturers of Dover Club and Fortesque Surf-casting; E-Z-2-Part Bait-casting, Wanita Fly Casting and other high quality reels that have met the tests of critical sportsmen.

Ocean City Mfg. Co.
1347 Noble St. Phila., Pa.

ZIP-ZIP

Here is a letter we received from a lady from way out west:

Gentlemen:
My boys were so delighted with the Zip-Zip shooters that they ordered from you that I am enclosing check for one dozen more, I want each of their friends to have one also. Please send these as soon as possible.

Thousands of boys are made happy with this wonderful Zip-Zip shooter. Order from us or your dealer, 35c each or 3 for $1.00. Send stamps, coin or money order.

AUTOMATIC RUBBER CO., Dept. B. B., Columbia, S.C.

HILDEBRANDT'S HINTS

Have you read Hildebrandt's new Hints with a lot of ideas on using Hildebrandt baits that "hook and land 'em?"

It's one of the best books on fishing ever issued—not a dry line in it. *Free to you*—tell us where to send it.

John J. Hildebrandt Co., 675 High St., Logansport, Ind.

"GET 'E-M" BAIT
A REAL BAIT FOR
CATFISH Does Not Require Triple Gang Hook. Will Not Wash Off Hook
PRICE 50 Cents Dealers Wanted
Manufactured by
ELLSWORTH & MARTHIS Fairbury, Nebraska

on Belle Isle were discussed and a program to prevent further pollution of the Detroit river were features of the meeting.

Detroit Chapter offers a new service to sportsmen with a "where to go fishing and hunting department." They expect to double their membership during the coming year.

Officers elected were Howard G. Pillsbury, President; George Hinger, Vice President; Howard A. Lawton, Secretary and Royal S. Smith, Treasurer.

Golden Trouting

(Continued from page 17)

mid-afternoon, the giant peaks shaded the water.

A strike was instantaneous, and after five minutes' work I found the bulldog I had hooked was a fifteen inch Golden Trout. We all caught them, strong, gamy fellows, and not a fish under a foot in length. The smaller fry seemed to prefer the creeks which fed the lakes, and, in turn, drained it, so they bothered not at all.

The next day was the same, but they would rise only at the chosen time, when the afternoon shadows were cast across the water. The little lake, perhaps only ten acres in area, was full of Goldens.

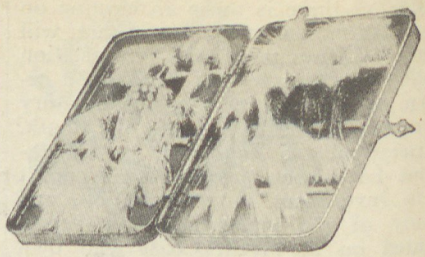
Later, we explored the basin thoroughly, wandering happily through the long green meadows beside the stream branches, which connected the myriad of lakes, each of which occupied its own niche a step higher in the basin. In most of these blue, glacial waters we found the Goldens, and they were all of good size. We fished for sport, rather than for fish, and returned carefully to the water most of the trout taken on this trip.

Several of the very highest lakes, with outlets so torrential as to prevent the trout climbing from below, we stocked with fish taken on tiny flies, and handled very carefully. That was three years ago, so next trip we hope to note the results of our work.

A year later I met an old prospector, who told me he had stocked the first little lake in the basin several years before, with trout carried many miles in a bucket.

Here, forty miles up the range from their native stream, we found the Goldens practically the same in coloration as those in Golden Trout Creek. Conditions were similar, of course, with the sand and gravel of the basin the same bright color as that in Golden Trout Creek. In Bubbs Creek, still further north, on the Kings River watershed, they are also the true Golden type, although a few have gone downstream, and have apparently crossed with the Rainbows in the lower waters.

All these facts would seem to prove, beyond a doubt, that the Golden will remain his natural color in any high altitude waters where the gravel is of the peculiar bright, yellow color so typical of that portion of the high Sierra.



Holds 24 Bass Flies

It's the work of an instant to insert one fly and remove another from the handy Green Line Fly Book. You can change flies easily and quickly right in mid-stream.

This ingenious, pocket size, folding metal fly book is constructed primarily to carry bass flies, but it accommodates trout flies equally well. Flies easily hook right into adjustable springs. Can't work loose, fall out or catch on each other. Feathers dry out smooth and fluffy and flies last longer and give less trouble.

If your dealer can't supply you, write us.

GREEN-CASE, Inc.
Dept. O. A. RACINE, WIS.
Manufacturers of
The **GREEN** *Line*

"Botte Sauvage"

Order now for Fall
Hand Made To Measure Water-Proof
A pound or two lighter than the average boot, easy to put on and take off, no hooks to catch. The ankle strap holds the boot in place, and also acts as an ankle support.
"The best all-around boot in the world."

Price $21.00
35 Days Delivery.

Write for measure blank and full description.

Freeman-Thompson Shoe Co.
ST. PAUL, MINN.

BASS! FISHERMEN
USE "NIPIGON" BAIT & FLY
Line Dressing
GET ACCURACY, DISTANCE, RESULTS!
In Collapsible Tubes
At Your Tackle Dealer's 50 cents, or
The Transferoid Co. Dept. A. OWATONNA, MINNESOTA

And the size of the Golden, as in the case of his cousin, the Rainbow, seems limited only by the natural feed in his habitat, and perhaps, by the volume of the water. There are authentic records of seven pound Goldens being taken from upper Cottonwood Lake during the last few years.

He is a real alpine dweller, the Golden, and it is doubtful if he would do well much below the 10,000 foot line, unless in extremely cold water. In the highest, rock-bound lakes, at timber line, and above, he seems quite at home, in spite of the short two-mouths summer season, and the apparent scarcity of feed.

There are few flying insects up there; and there is no soil from which worms might be washed during the rains. Also it rains little, as the cold atmosphere, even in August, turns any falling moisture to snow. Through at least eight months of the year the higher lakes are frozen to many feet in depth, save for small spaces where the streams enter or leave them.

Perhaps you will not believe that, in a large lake, lying at just under the 13,000 foot line, nearly to the crest of the range, there are Goldens two feet in length. One never sees insects up there, vegetation is entirely lacking—except the fine alpine hair grass, which grows where there is any soil to support it—yet the Golden flourishes. He will rise to grasshoppers, flies, and spinners when conditions are right, and will not refuse worms or salmon eggs at times.

His alpine habitat is remote, away up there, but it is the two or more miles of perpendicular distance which places him so far from the outside world. When the fisherman knows how, a very comfortable two days from Los Angeles will take him up there.

A long day's motor, or a night's railroad trip, will take the sportsman to the eastern foot of the great range. Then a day, or more, up the trail, with saddle and pack animals, will do the trick. Beyond doubt, as time passes, visiting sportsmen to California will turn toward the High Sierras, and invade the land of this most beautiful of all our game fishes.

Motorists coming to Los Angeles and vicinity via the Lincoln Highway will turn south in western Nevada and travel the Midland Trail through Owens Valley. This is now the shortest and best route, and is open nine months of the year. From Bishop at the upper, to Lone Pine at the lower end of the valley one travels along the base of the Sierras.

From either of these, and from several other towns between, there are good trails leading over the crest of the range, and invading the Golden Trout country. Saddle and pack stock is rented at extremely reasonable rates, and competent guides are always ready to conduct the visitor to the best fishing grounds. Lone Pine is a modern little town, with good hotels and garages. The visiting fisherman may leave the family comfortably settled for a few days' rest, pack up in the morning, and that night, after an easy day's ride, be

Kingfisher Silk Fishing Lines

No Artificial or Spun Silk

~made of pure Japanese Silk only

WE guarantee absolutely that only the very finest Japanese silk goes into Kingfisher Silk Fishing Lines. What is more, we know that they are prepared with as careful and as skillful workmanship as can be employed. Pretty broad statements these—but we vouch for them, as will thousands of expert anglers. In other words, we assure you that when you buy a Kingfisher Silk Fishing Line you have the very finest that money can buy.

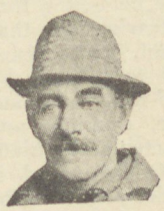
WRITE and let us send you free our complete catalog giving full specifications and prices of all Kingfisher Lines.

THE HORTON MFG. CO.
227 Horton St. Bristol, Conn.
Pacific Coast Agents: THE PHIL. B. BEKEART CO.
717 Market St., San Francisco, Cal.
Manufacturers of Bristol Steel Fishing Rods, Luckie Rods, Meek Reels and Blue Grass Reels

Kingfisher Black Wonder Line

Best value in waterproof silk line for all-around fishing ever put out by us. Hard braided and unaffected by salt water. Tremendously strong. Excellent for trolling and casting. Color: jet black. Price 100 yards, 15 lb. test —$3.50. Higher tests in proportion.

If your dealer can't supply you, order direct enclosing price.



JOE WELSH LEADERS

Josh Billings well said, "There's no argiment agin a sukses." When such men as Ozark Ripley, Bob Davis, Robt. Page Lincoln, Dr. Chas. F. Holder, the late Dixie Carroll, say there is only one perfect leader, for Strength, Durability and Invisibility and Lasting Qualities, and that is the genuine JOE WELSH LEADER, good in fresh and salt water. It won't cost you a cent to have samples of the 6 sizes mailed to you. You will use this leader some day—why not now?

A 3 ft. trout or bass size.....25c A 6 ft. trout or bass size.....50c

This price for trial order only, direct from me. Most dealers have them. If yours don't; tell me. Only one genuine JOE WELSH LEADER, registered under the name of "Telerana Nova" as manufactured by Wm. Robertson, Glasgow, Scotland. Address to

JOE WELSH P. O. Box 341 PASADENA, CALIF.

LINES

HAVE you read the new ASHAWAY booklet, *"Fish Stories"*? New stories by well-known authors. Many fishing suggestions that experienced anglers have spent years to learn. All about lines for fresh- and salt-water fishing. How they are made. What points to look for when buying a line. Send the coupon for your copy. IT'S FREE.

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Box 446-7 ASHAWAY LINE & TWINE MFG. CO. ASHAWAY, R. I.

"MO-LASH" CATFISH BAIT

The Bait made to use with a single or Barbless Hook.

Sold by all Hardware and Sporting Goods Dealers.

Manufactured by
MOSHER and LASHER
Wymore Nebraska

PATRONIZE the ADVERTISERS
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NEW JOINTED Pikie Minnow

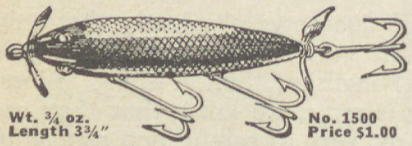
Length 4¼ in. Weight ¾ oz. — No. 2600 Price $1.25

GETS THE BIG FISH

Fish and fishermen, everywhere, are simply crazy about the New Jointed Pikie Minnow! Its tantalizin', wigglin' swimming movement so accurately duplicates the actions of the natural, living Pikie Minnow—that even the large old wise fish can't tell the difference.

If it's Fish you want—and many of them—take this new wonder lure—the last word in true-to-nature lures—with you! Get one at your dealer's or direct!

Floating Injured Minnow



Wt. ¾ oz. Length 3¾" — No. 1500 Price $1.00

You know you're really "Goin' Fishin'" when you've got these two fish foolin' wonders in your kit! Both are deadly killers wherever game fish are found.

Get any of our real fish getters from your dealer or direct from us! Every one guaranteed to be satisfactory to you in every respect or money refunded! Dealers sell our baits under this guarantee and we protect them!

Our New Beautifully Colored Catalogue Sent Free Upon Request! Ask for our new circular "$100 for a Name" for New Wiggling Spoon!

Creek Chub Bait Co.

327 So. Randolph St. Garrett, Ind.

Thousands of

IZAAK WALTON LEAGUE MEMBERS

were constant users of

ALLEN'S FOOT=EASE

in the World War

Do you remember the long hikes, the tiresome drills of your army days when **Allen's Foot-Ease** gave relief to your sore tired feet? Over 1,500,000 pounds of powder for the feet were used by our army and navy during the war. To-day this antiseptic, healing powder will give the same soothing, healing relief to tired, swollen, aching, sweating feet, painful corns and bunions. Shake **Allen's Foot-Ease** into your shoes in the morning, and walk all day in comfort. **Allen's Foot-Ease** is a most necessary part of every sportsman's equipment. *Get a box to-day at any Drug or Department Store.* Trial package **FREE.** Address, **ALLEN'S FOOT-EASE, Le Roy, N. Y.**

camped at Cottonwood Lakes and catch Goldens for supper. A stop of three days will enable him to at least catch these spendid fish, and a week will permit him to revel in sport, which will prove a revelation, regardless of his previous fishing experience elsewhere.

Visitors planning such a side trip, from Owens Valley points, can easily arrange ahead, by mail, all the details, and find their outfit ready for them. A letter to the postmaster of either of the towns mentioned will bring the names of several reliable pack outfitters.

A Plea for Wild Plants

(Continued from page 23)

a situation a realization of which must cause a tightening of the heart-strings of those who have participated in the tragedy.

This regrettable change in our flora is attributable to many reasons, but one of the principal causes is our uncontrolled desire to pick flowers indiscriminately. Paradoxical as it may seem, folks who love the plants most are the largest contributors to wild flower extermination. They are well-meaning, considerate, and kindly disposed, but in their ignorance they are despoilers of the beauty of the flora to an extent little short of vandalism. They invade the countryside in automobiles which are brought back to the city heaped high with branches of flowering Dogwood and Redbud. They penetrate the woods, and return with huge armfuls or basketfuls of the loveliest of woodland plants! They decorate their churches with the lilies of the field, their houses with Ground Pine and evergreens. Each spring these hordes descend upon the fields, the forest and the meadow, tearing out that which they do not want, great heaps of wilting plants soon to be cast by the roadside in withered masses. Wanton and indiscriminate, criminal and wicked in results, but actuated by kindly, esthetic impulses. Oddly indeed, is their love of nature demonstrated by destroying her fairest products in such unlimited quantities. They do not know that the function of a flower is to produce seed so the plant may perpetuate its kind. They are astonished when told that their indiscriminate picking is robbing the plants of their right to live.

The lack of knowledge existing among these well disposed folks, an ignorance seemingly shared even by our scientific men, is absolutely appalling. A Chicago high school teacher recently boasted that he had collected over a thousand pink Lady's Slippers from the nearby dunes in a single day! During the war an organization of national prominence issued a patriotic appeal through the Washington newspapers for automobile loads of dogwood to decorate "auditoriums where religious services are held Sundays and entertainments, lectures, musicales, and classes on other days."

absolutely Weedless Automatic Bait

When the fish bite it, it looks like this

The WAB fascinates every bait caster. They are carrying it in their vest pocket to show their fishing fan friends.

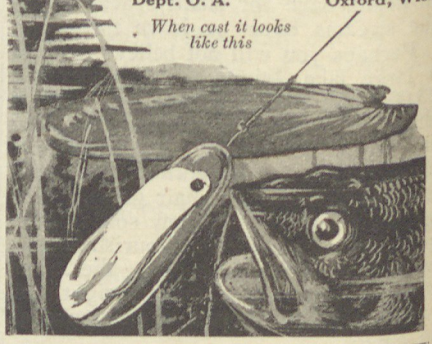
Everyone Wants It

Slam it into the weed bed, rushes or lily pads anywhere. Smooth as a plug without hooks. Tested for two years catching Bass, Pike, Pickerel, Muskies and even Sunfish. Price $2.00

Send for description.

FENNER WEEDLESS BAIT CO.
Dept. O. A. Oxford, Wis.

When cast it looks like this



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THE MAN WHO REFUSED TO FAIL

By Fitzhugh Green

The stirring record of the great explorer's life, covering the years of struggle and achievement, in themselves just as inspiring and as thrilling as his ultimate discovery of the North Pole. Commander Green is a distinguished explorer, author and friend of Peary. A beautiful book, adequately illustrated. $6.00.

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With the Lifelike Action Spells Success to All Who Use It. Ask Your Dealer for It

L. B. HUNTINGTON ANNAPOLIS, MD., P. O. Box 406

FLIES SURE FISH GETTERS

Single hook lures that hook 'em and land 'em. Send $1.00 for a set of SIX proven fish getters—FLIES that fish are looking for.

We also specialize in making flies to order—your own idea made up for you on either sproat or sneck hooks.

THE TOLEDO TACKLE CO. 2318 Auburn Ave. TOLEDO, OHIO

Luckie?
~I'll say!

A quality Rod at a moderate price

If you're looking for a real fishing rod—one that's strong, good looking and will catch fish, but which perhaps hasn't some of the frills of its more expensive brothers, you'll like the Luckie Steel Rod. And its cost is about half what you would expect. Made by the makers of the famous Bristol Steel Fishing Rods. WRITE today for free catalog describing the many models. The Horton Mfg. Co., 57 Horton Street, Bristol, Conn. Pacific Coast Agents: The Phil. B. Bekeart Co., 717 Market Street, San Francisco, Cal.

Luckie Bait Caster—$3.50

No. 500 Luckie Bait Casting Steel Rod—4 to 6½ feet—3 joints. Cork handles, nickel mountings. Black enamel. Nickel casting guides. Agate top. Weight 6½ to 7¾ ounces. Price $3.50. If your dealer can't supply you, order direct enclosing price.

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TRADE MARK
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For Longer Casts and Bigger Catches use

Korrect Kor Lines

made of the very highest quality Japan Silk.

OUR WATERPROOF CORE
makes them mighty quick drying lines, hence easy casting.

OUR GUARANTEE
on the back of every spool, insures YOU satisfaction.

If your Dealer can't supply you, send us his name and we will send you samples and prices at once.

KORRECT KOR LINE CO.
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Peck's Dragon Bugs and June Bugs

Whoopee! How they smash 'em, during late evening and night fishing! They are the anglers' midsummer friends. Make a dollar bill work! Send for one Dragon Bug, 65c, and the underwater favorite, Nipigon Parmaketch, 35c ea. June Bugs, 50c ea. Peck's Fishing Booklet is *Free*.

Peck's June Bug

E. H. Peckinpaugh Co. CHATTANOOGA TENNESSEE

MASTER BIFF PLUG
Lifelike in action, reeling fast or slow

Hollowed intake in head of bait causes water to pass through red enamel gill holes which eject streams of water, appearing like side fins of a live and frightened chub. Also gives bait very lifelike zig-zag motion. Red head, with white body, or Natural Perch color—sent postpaid on receipt of 90c. Send for circular describing other Biff Baits.

Dealers and jobbers write for very attractive proposition

BIFF BAIT CO., O. A., 4101 Meinecke Ave., Milwaukee, Wis.

A Boy Scout bulletin states, "when I was a boy we always called these flowers Mayflowers, and it was the duty of all public-spirited youthful citizens to at once organize May parties as soon as they grew. We would pick vast quantities of them along with bunches of the rarer adder's tongue or dog-toothed violet," with no admonition that these deeds were wrong.

On the grounds of the New York Botanical Garden, four hundred and ten Jacks-in-the-Pulpit were torn out by a class of school children under the guidance of their teacher. The students of the public schools of one of our western cities entered a competition based on the quantities of wild flowers gathered under the encouragement and applause of their instructors.

These, and a long additional list of similar instances, serve to illustrate the lamentable ignorance existing on the subject, since in no case was the extermination of the flowers the desired object. How much longer can we continue to share in such depredations and still hold our heads high in self-respect?

In Florida the Sargent's Palm has been extirpated; how many more species must follow its wake before something is done? A plant once exterminated is gone forever; an extinct species is beyond the power of man to resurrect.

What, then, is the remedy? There is but one answer, education. Fifty years ago a man could kill paroquets or wild pigeons without fear of reproach from his fellows, but today birds are protected by both sentiment and law. A similar robust sentiment must be created for the wild plants, a sentiment which will make indiscriminate gathering unfashionable. To some, the economic value of the disappearing plants will make the strongest appeal. Wild plants, especially the handsomer varieties, furnish nectar from which thousands of dollars worth of honey is made annually by busy bees.

The destruction of wild plants means the killing of numerous birds by winter starvation, since many birds depend upon them for food, and the killing of birds means the purchasing of insecticides, inasmuch as birds are the natural enemies of insects, destroying them in large numbers. Again, the distribution of the handsome wild plants frequently is concomitant with the lowering of real estate values in suburbs and resorts, since the beauty of the flora has much to do with the value of nearby building sites.

Some people are deterred in their vandalistic tendencies by the dictates of laws. Thus in Maryland a law prohibits the picking of wild plants without the consent of the owners of the premises on which they grow, while several other states have enacted legislation designed to protect the flora.

By far the greatest number will be influenced toward protecting the flora by the creation of a healthy sentiment in favor of the endangered plants. It must not be understood that the picking of wild flowers should be prohibited, but such gathering should be done in a spirit of thoughtfulness and con-

(*Continued on page 48*)

Governor control
GETS 'EM!

The Graham No-Lash Reel, with its *constant control by governor,* cannot back-lash! With any weight bait and casting at any distance, it functions automatically, perfectly, leaving you to attend to your fishing.

You don't even thumb it, except the slight touch just before the bait hits the water. And you can't slam it too hard!

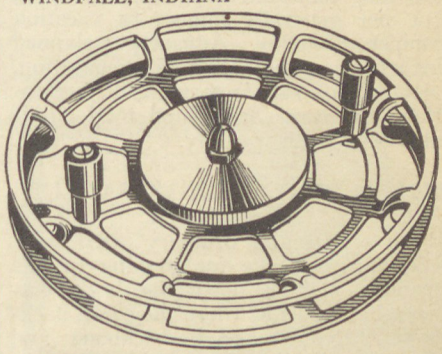
Ask your dealer about the reel that has taken the back-lash out of fishing, or drop us a line and we'll tell you the whole Graham No-Lash story.

DEALERS! Write for attractive proposition

WRITE!

This new illustrated Graham booklet will tell you all about this superlative reel and its GOVERNOR CONTROL. It's FREE—write today.

GRAHAM REEL CO.,
WINDFALL, INDIANA



Graham No-Lash

"THE GOVERNOR DOES IT"

Real Camping

If there is any question you want to ask in connection with Camping, write to Outdoor America

Conducted by MURDO GIBSON

Open-Fire Cooking

FRIED fish, though delicious for a few meals, soon palls. Boiled fish might be a welcome change, but the cruiser who has only one small pail may hesitate to use it for that purpose. Although not especially noted for meticulous dish-washing, most woodsmen are rather particular about their tea, and they know that the slightest trace of fish odor remaining on the utensil is pretty sure to give the next infusion an undesirable fragrance and flavor.

Broiled fish looks inviting, on a menu card, but the product of the novice, who tries to toast one *over* an open fire, is likely to differ somewhat, in exterior finish, from the golden brown pictured in cook books.

For the benefit of those who have never cooked fish out of doors without using dishes, I will describe some methods, long employed by primitive peoples, but not generally known to vacation campers of today. Advantages claimed include ease and speed of preparation, certainty of satisfactory results, retention of natural flavor and total elimination of dish-washing.

FRESH FISH "A LA VOYAGEUR"

To prepare an ordinary sized bass, lake trout or pike for cooking in this manner, split it down the back, cutting through ribs where they join backbone. Remove head, backbone and entrails. Scaling is unnecessary. At this stage the fish will look something like Figure 1, and is ready to be nailed to the board, log or frame that is to support it during the cooking process. For this purpose I use ordinary horseshoe nails, but hardwood pegs, sharpened to the form of a pointed wedge, will answer. Nails are driven in just far enough to hold securely, so that when the meal is ended, they may be extracted, cleaned and wrapped up for future use.

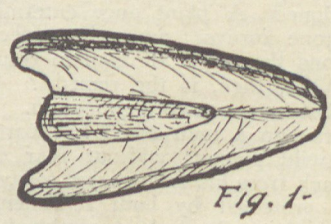


Fig. 1-

Fig. 2-

Ready for roasting-

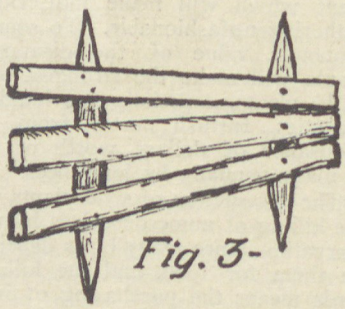


Fig. 3-

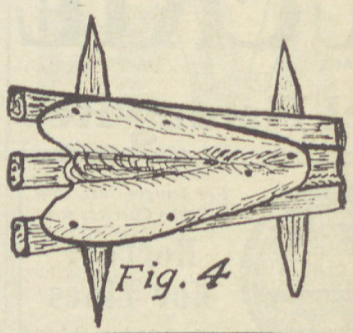


Fig. 4

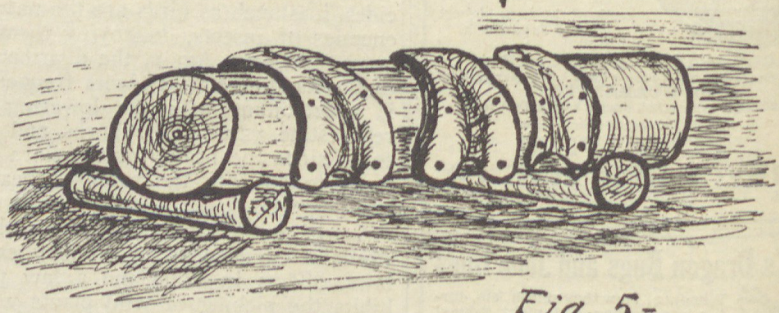


Fig. 5-

Figure 2—shows the fish tacked to a log and ready for roasting. The two slightly notched sticks upon which it rests enable the cook to turn it easily without danger of having it come in contact with the ground, or rolling out of position.

When neither board nor log is available, a satisfactory frame can be quickly made from a green sapling (see Fig. 3. For convenience in holding and nailing, the selected tree should, *before felling*, be flattened on both sides as far up as the axeman can reach.

Figure 4 illustrates the manner in which the fish is nailed to the frame.

Some writers advocate heating the "plank" before attaching the fish. This I think unnecessary and perhaps inadvisable. Heat from the wood has a tendency to drive into the flesh any taste of slime that may adhere to the

skin of the fish, and unless it has been scaled, or scraped thoroughly, I prefer to have all cooking heat applied from one direction.

The time necessary for roasting a fish beside an open fire varies according to size of fish and intensity of heat. A two pound pike set close to a hot fire of dry wood will cook through in less than twenty minutes, and a ten pounder should not require more than forty. By using reasonable judgment in manipulating the fire and turning the fish, any desired shade of brown can be easily obtained. There is no need for even the greenest tenderfoot to serve his famished friends any such blackened, smoke impregnated ruins as are sometimes offered under the name of "Broiled Fish."

Planking frame, when not in use, should be kept in water. If allowed to dry it will become too inflammable.

Don't stretch a fish when nailing it to the frame. Allowance must be made for considerable shrinkage. Unless *compressed,* it will tear away from the nails and perhaps fall off.

To baste a fish while it is being planked, impale a piece of fat pork, or bacon, on a stick and place it so that the heated grease will drip where wanted.

Planked fish should be eaten *before* it is detached from the frame. It is unwise, therefore, to fasten them to anything that cannot be easily moved to a convenient position.

Seasoning is accomplished by pouring a little heap of salt near the center of the fish, and touching it lightly with every morsel that makes the upward journey to the main entrance.

Competent authorities on wilderness etiquette claim that it is perfectly good form to separate flakes of a planked fish from its skin and to convey them to one's mouth without the aid of knife, fork or spoon. While agreeing with them, in principle, I prefer to use a fork. With a fork in my right hand and a piece of bannock in my left, I can work sooner, if not faster, than those who scorn all such artificial utensils.

Fish may be roasted beside an open fire without the use of either frame, log, or nails. One fairly good method is to suspend the opened fish by means of a wire, or stout string, around its tail. Slender, green sticks, sharpened at both ends and slightly longer than the fish is wide, act as "spreaders" to keep it flattened out. If the fire is built close to the edge of a hole, or depression, a large fish can be lowered gradually until every part of it is evenly browned. When thoroughly cooked it should be laid, for a few moments, on the hot coals, flesh side up. This is to stiffen the skin and make it easier for the eater to cleanly remove the edible contents.

BEAN HOLE FISH

When preparing a fish for cooking in the "Bean Hole," split it up the front, instead of down the back. There is no necessity for removing bones, nor for exposing a large flesh surface to the heat. Cut only enough to permit

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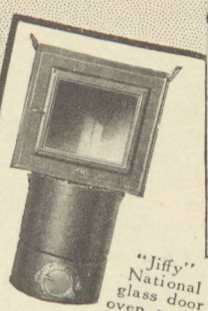

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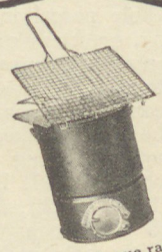

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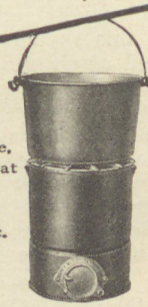

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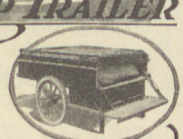

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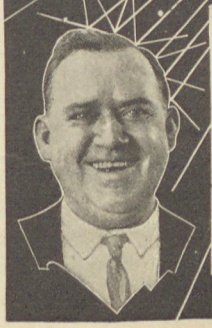

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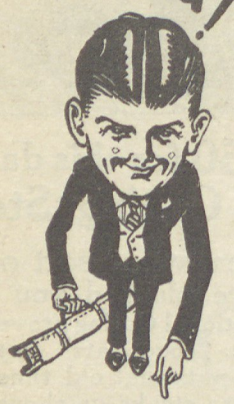

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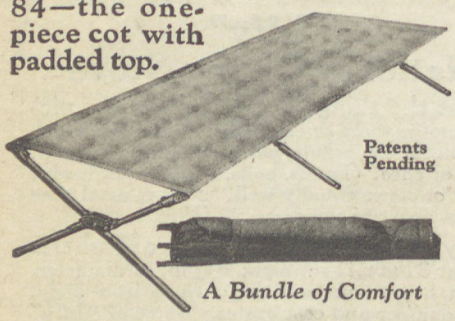

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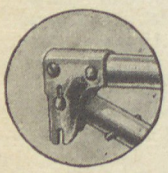

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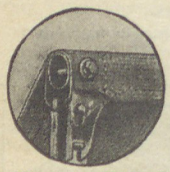

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proper cleaning. Some fishermen make no belly incision, but remove the entrails by drawing them through the throat cavity. I make no effort to scale the fish, nor to remove its fins, but like to clean the inside thoroughly and to remove, with every particle of its contents, the membrane that lies along its backbone.

The next step is to so wrap the fish so that no sand, ashes or other dirt can come in contact with it. For this purpose I know of nothing better than paper. When it is available, I use nothing else. The number of thicknesses necessary depends on its kind, quality and, to some extent, on size of fish. Wrapping must be done carefully in order that no breaks in the covering remain unsealed, and each sheet should be soaked, *separately,* in water beforehand. The whole parcel may then be tied with string, or strips of bark, and placed on a piece of board, bark or thin smooth stone. The reason for this is, that a steamed fish has but little rigidity and the water-soaked wrapping paper may not be strong enough to withstand much strain. It is advisable, therefore, to have a stiff, flat support underneath, so that it may be lifted from the cooking hole with ease and safety.

Meanwhile, the "Bean Hole" is supposed to be full of hot sand and ashes. About half of this should now be removed and piled neatly near the edge. When a level bed has been prepared therein, place the supported fish in the hole and cover deeply with the hot material previously removed.

It requires about an hour to cook a five pound fish in this manner, but no harm will come to it if it is left in the hole all night. One of the many advantages of "Bean Hole" cooking is that there is no arbitrary time limit within which the food must be taken out. I often leave baking powder bread in the ground for ten hours, or more, and it seems to look, and taste, as well as that which is baked according to cook book regulations.

If proper care is taken, when lifting it from the hole and removing its wrapping, the fish will be clean, unbroken and so well cooked that the entire skeleton can be separated from the flesh without difficulty.

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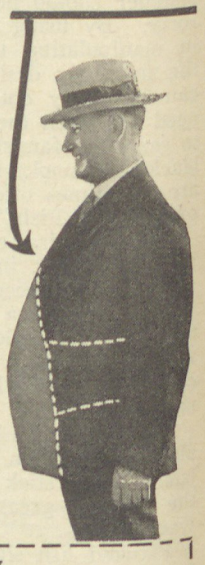

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(Continued from page 35)

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F. C. Doeren	66
T. Zabel	64
L. D. Michaud	62⅔
Harry Hedlund	61⅔
Wm. Winter	60⅓
A. C. Peterson	58⅓
H. E. Dodds	56⅔
M. J. Michelson	54
E. L. Steidel	52
Joe Bantz	47

Five-eighths Ounce Accuracy Bait

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E. L. Steidel	98.6
Wm. Winter	98.2
Ed. Tischler	98.1
Ben Wittick	98.1
M. J. Michelson	97.7
Paul Schilling	97.7
A. C. Peterson	97.6
H. F. Dodds	97.5
F. C. Doeren	97.3
T. Zabel	97.2
Elsie Sundberg	96.9
L. D. Michaud	96.9
E. A. Hill	96.5
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A. E. Knutson	95.7
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Wm. Winter	95.5
H. W. Roberts	95.3
J. W. Wheeler	95.2
Harry Hedlund	94.3
C. R. Freeman	91.6

¼ oz. Accuracy Bait	Per cent
Bornholt	99.6
Willman	99.4
Stanley	99.3
H. Chatt	99.3
White	99.0
W. A. Eberman	99.0
Cook	98.8
Fridenberg	98.4
McCombs	98.3
Bennington	98.0
Mathie	97.9
H. B. Eberman	97.9
Randle	97.7
Allison	97.2

¼ oz. Accuracy Bait	Per cent
Bornholt	99.5
Willman	99.5
Stanley	99.5
H. B. Eberman	99.4
Mathie	99.1
Cook	98.6
H. Chatt	98.6
Allison	98.4
Fridenberg	98.3
W. A. Eberman	98.3
White	97.9
Randle	97.4
Clapp	97.3
Lloyd	97.1
Kromphardt	97.1
Bennington	97.1
McCombs	96.8

5¾ oz. Accuracy Fly	Per cent
Willman	99 10/15
Bornholt	99 8/15
Stanley	99 7/15
H. B. Eberman	99 5/15
H. Chatt	99 5/15
W. Eberman	99 4/15
Cook	99 1/15
Fridenberg	98 10/15
McCombs	98 3/15
White	97
Kromphardt	96 12/15

½ oz. Distance Bait	Average	Long Cast
Stanley	250⅘	276
W. Eberman	250⅕	270
Willman	250⅛	267
H. Chatt	237⅘	256
H. B. Eberman	217⅘	232
Cook	200⅘	212
White	193⅕	254
Fridenberg	169⅕	241
Bornholt	163⅘	231
McCandless	162⅘	185
Kromphardt	135⅘	173
Mathie	132⅘	186

The balance of these averages will appear in the August issue

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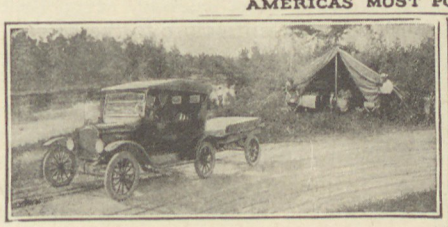

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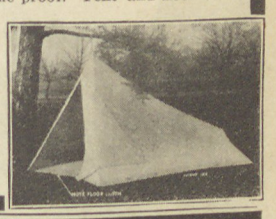

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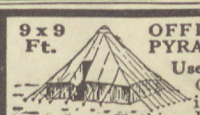

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A Plea for Wild Plants

(Continued from page 43)

sideration. The following suggestions are offered which, if followed, will result in adequate protection to the wild flora.

1. Always allow sufficient flowers to remain to mature seed and so perpetuate the species.

2. Allow the roots and other underground parts to remain undisturbed. To do this, the use of a pair of scissors or a knife is advisable.

3. Never tear out the creeping stems of plants such as Lycopodium (Ground Pine) and Arbutus. The flowering stems of Arbutus may be picked with impunity if the creeping stem is left undisturbed.

4. Discourage the decorating of houses and churches with ferns, evergreens, etc.

5. Pick an abundance of Daisies, Chicory, Wild Astors, Buttercups, and other handsome but troublesome plants. Many weeds produce beautiful flowers.

6. Start a wild-flower garden. Seeds should preferably be used for this purpose.

7. If you are a school teacher, substitute cultivated plants for rare wild plants in school work whenever practicable.

8. If you own woodland property, set a few acres aside as a Wild Life Preserve.

9. Never pick more flowers than you really need; leave some for the next person in case there is an abundance. Remember that wild flowers look best in their natural surroundings and rarely make good bouquets. Most wild flowers wilt in a few moments.

10. Do not burn woodland in order to be rid of the dead leaves in the autumn. Allow these leaves to decay and furnish a natural fertilizer and winter protection for the flora.

11. Do not break off the stems of Redbud (Judas Tree), Flowering Dogwood, or other shrubs. To do so will expose the plants to the attacks of fungi which may cause eventual death. If branches must be had, sever them with a sharp knife close to the base.

12. Do not purchase rare wild flowers from florists nor bunches of wild flowers from children or street venders.

The establishment of preserves or plant sanctuaries suggests a partial solution to the problem. Such preserves already exist in many states, some of which are under state supervision, as in New York State, and others are privately owned. The preserve of the Chicago Chapter of the Wild Flower Preservation Society of America may well be used as a model for all other enterprises of similar nature. The organization has leased a natural tract of land near the city which has been set aside as a permanent wild life reservation for the native plants of the southern Lake Michigan region. The tract has a three-fold purpose, to safeguard the species naturally growing there, to bring in all those species that have been previously lost to the area and to allow all persons to visit and enjoy the wild flowers so long as they refrain from picking them.

It is especially desirable that each state in the union set aside an area of land containing typical virgin growth, to remain untouched and untrammeled by man in perpetuity. The oncoming generations should not be robbed of the opportunity of viewing the natural floral beauty of their state in all its pristine loveliness. The future value of such a tract from an educational, esthetic and economic viewpoint may be very great indeed. Such a tract should present as varied a topography and as many different ecological conditions as it is practicable to obtain in order that a maximum number of species may be cared for.

Both the flora and the fauna should receive careful protection. Where a state presents such entirely different conditions as the forest region of northern Michigan and the dunes of the southern part of the state, the mountains and the coastal plain of North Carolina or the subtropical flora of southern Florida and the more temperate flora of north Florida, such a state would do well to have at least two preserves, neither of which need necessarily be extensive.

During the past century the world has witnessed wonderful economic development. Manufacturing has reached to all corners of the earth for raw materials; even the kelps of the sea are utilized. The railroad, the automobile, the steamship and now the airplane have made formerly remote regions readily accessible, until the natural resources of no region are secure from the grasping hand of industry in its search for raw materials. Almost before we may realize the true situation, an entire region may be stripped of its woodland or otherwise totally changed from its natural aspect. Prompt and efficient protection measures are needed and to the fulfillment thereof we must turn to science. But many scientific organizations have in the past assumed an attitude of either indifference or passive interest.

Although, when questioned on the subject, all botanists express regret at the disappearance or threatened extinction of numerous species, nevertheless few show the sincerity of their words by action. Indeed, there exists at the present time but two organizations with the sole object in view of protecting our native flora, neither of which is sufficiently equipped as to number of members or funds available to properly perform their self-imposed task.

As an instance of work that needs to be done in our own country, a recent investigation on the part of Frederick Coville of the United States Department of Agriculture has revealed the fact that the handsome Box Huckleberry, *Gaylussacia brachycera* is now

on the verge of extinction. Its occurrence has been reported in only five widely distant localities, in only two of which has its existence been actually verified. In both of these stations, single plants only were found, one of which covered an area eight acres in extent in Perry County, Pennsylvania, while the other, located in Sussex County, Delaware, was considerably smaller. Oddly enough, no seedlings could be located, although fruit was plentiful.

The explanation of this phenomenon probably lies in the tendency of pollen to be sterile toward the plants upon which produced. The estimated age of the larger of these two plants is twelve hundred years. The Box Huckleberry is a handsome native shrub, forming one of the most beautiful of evergreen ground covers and is worthy of protecting from extinction in its wild state. The ground upon which they grow should be purchased together with sufficient surrounding land to al-

Suppose he "Muffed it!"
Of course—he won't but if he should, no damage would result. You see, it's a NEW STANLEY SUPER VAC and it will not break. You have always thought of a vacuum bottle as something fragile—something that some jolt or jar might break and ruin

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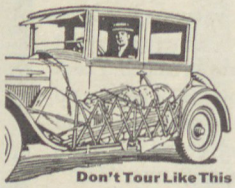

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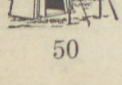

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16 PAGES

the club during the days, and Cupid, strolling along the river, would see him slipping restlessly along the shore, peering cautiously around each bend, and pausing now and then to examine the banks for tracks.

Spring came slowly that year, but by early April the river was clearing up and the big rainbows—gently fanning on their spawning beds and milling in the big holes—were easy to see. Cupid himself increased his patrol of the river, fearing spearers. But along the banks he always found the tracks of Steve ahead of him.

How terrible the late spring must have been in that tar paper shack. By now the glowing promises of the Chicago land shark had faded into the dull gray of reality. The remnants of the small potato crop must have been their mainstay. The cow was dead. Meat—why meat was only a dream now that Steve had quit hunting—queer—he used to shoot so much—now he always came home empty handed. He never caught fish—why, the river was full of fish—Stanislas, the next older, had seen them—big ones—by the hundred. But Steve—he said he couldn't catch them. Over in the settlement other men talked about them—said how good they were—even said—well something was better than spears to get them. But Steve—Steve was getting queer—hanging around that club house—never bringing home anything.

Sometimes I wonder—the things we condemn as crimes—sometimes the punishment we mete out—never reaches the real criminal—the Chicago land shark, for example.

I wish I might have known what happened in that tar paper shack that clear night in mid April. I wish I might have heard the argument that went on in that strange guttural tongue—the protests—perhaps the lies—the threats of Steve. I wish I could have seen the blow which alone could have given him such a black eye—the shove that ripped his coat—the fall that wrenched an ankle. I can only imagine that, and tell what Cupid told me.

It was a soft night, one of those strange April nights that hint of the June to come. Cupid had been loath to go to bed, sitting out on the stairs, slightly chilly, but enjoying the hint of spring, real spring. Then, above the rhythm of the rapids, above the hooting of an owl over on the flats, had come the single report of a shotgun—up river—a cry—and utter silence. Cupid rushed up the stairs, stood motionless on the top of the hill, and strained his ears. Silently he cursed the hooting owl, the murmuring stream. But no other sound came to him. Desperately he sought to see into the soft night, trying to catch a glint of light up river, rubbing his eyes as though they were blurred, and then peering forth again. For ten minutes he stood thus until he discovered he was shivering and started down the stairs.

Puzzled, he entered the club house and lit the lamp. This was strange—why a shotgun—on the river—at night. Slowly he filled his old pipe. Slowly he drew a match across the stove. Then

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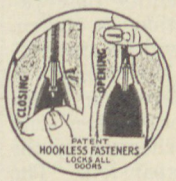
Welded steel tubing frame can be adjusted from inside of tent to allow for wet weather shrinkage. Tent can be erected in 5 minutes. Center pole 8' 3" high provides ample head room throughout tent.



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abruptly he stopped. There on the bridge—yes, there it was again—footsteps. Quickly he picked up the lamp and opened the door. On the path were three figures heading towards him. He threw wide the door and held the lamp high, and into the circle of light marched the three figures.

In the lead, blood dripping from an arm held close to his body, was Steve's brother, the same who had snitched Cupid's tobacco. His eyelids hung lower than ever, and he held his injured arm lightly with his other hand. Behind him came a slightly taller man, clearly another brother, his face sullen, and in his hands four tell-tale sticks of dynamite and a coil of snaky fuse. And lastly, close behind, an ancient single barrel shotgun at full cock and pointed straight at the back of the second man, came Steve. He limped painfully, one eye was black and half closed, a long scratch ran down his cheek. Yet his back was straight, and the hands that held the cocked gun were steady.

Silently the three marched into the room. Silently Cupid stared at the procession. Then Steve, lowering the gun, smiled at Cupid, a clear, understanding smile, yet made fearful by the half shut eye, the bloody cheek. There was a steady drip of blood from the brother with the injured arm. Steve gulped, and then he spoke, spoke in a clear, high pitched voice, nervously taut, but in unslurred English.

"What do you know, Cupid," he said. "These foreigners tried to blow our river."

Trees of Tomorrow

(Continued from page 21)

showing the whole process of the great "work of re-forestation."

The article was written by somebody very familiar with the "Great work" as it is being pulled off; it was a very good article from the point of view of language, illustrations, etc., and it was simply and clearly written; the writer knew exactly what he was talking about and he was talking learnedly about the weighty subject of artificial forest making, which is designated as "re-forestation." All he lacked was real *knowledge of fact* which means *knowledge of nature's methods regardless of the puny plans of man.*

He knew all about the ART of RE-FORESTATION; he didn't know anything at all about TREES—just TREES! Any old kind of trees from switch-willow to Redwood, anywhere and everywhere that trees grow!

He didn't know, and had never yet found out, that trees can, and DO, THINK! *That* truth had escaped him!

He's a man. HE thinks with his little brain and, manlike, has figured out that a TREE *can't* think because it can't come up to him and put a thumb in his buttonhole, and say in his own language, "looky here, Bill, you'n me is

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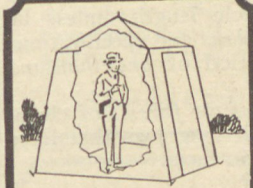
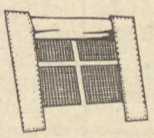
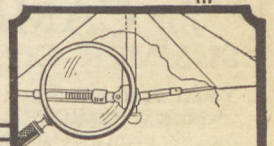


36 square feet of headroom at 6' 4" from ground.



Storm-proof window that is storm-proof. Extra large opening—24" x 24". Operates from inside.



Spring arm automatically adjusts to shrinkage of canvas when wet. No need to slack guy ropes in storm.

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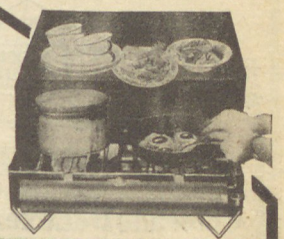

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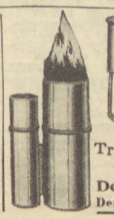

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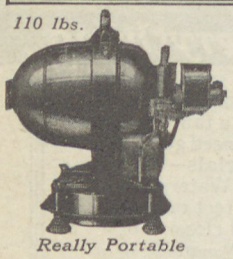

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friends, let's do so and so."

No tree can do that; that isn't a tree's way, but man has never found that out and therefore he has never gotten acquainted with trees at all!

He thinks he can stick a tree in a hole in the ground and give it water and—maybe—cultivate it, just whenever he takes a motion and, by and by, he will grow a real nice forest.

He overlooked two or three little things that nature never overlooks, *never*. Otherwise I guess he's all right.

First, he forgot to mention that he couldn't, in a million years, grow even *one single tree without knots* in it! A tree that is full of knots is not good for lumber.

A tree *without knots* is grown *only* by *thick crowding of seedlings* and saplings that *force the tree up for light and air* and it *can't be grown at all in less than a thousand years;* that's where the plans of man fall down.

The coniferous trees will be his worst failures because, without nature's crowding process during youth, they will have more knots to the running foot of log than any of the species, for the reason that they have more branches.

Man can never, in another million years, grow a tree two hundred and fifty feet high, with a logable, sawable trunk, good for lumber, for two-thirds of the tree's whole length, unless he *follows nature's plans* and specifications *exactly* for a period of *one thousand years!*

Nature grows *whole forests* of clean, straight trees with long logs that have *not a single knot* in them.

You think not?

Thirty-five years ago I saw, in the Port Madison shipyard, then a crude, almost hand-made, ship-building plant on Puget Sound, a single stick, gotten out for what is called (if memory serves me rightly) the "Keelson" of an old-time wooden ship.

This stick, hand hewn to shape, was 138 feet long, 6 feet wide and 10 inches thick WITHOUT A KNOT IN IT. I make that statement without reservation. I saw the stick, jotted down the figures then and take them now from a note book, dated thirty-five years ago.

I tell you here, and now, that man under his present plans will never, so long as the world endures, produce one single "re-forestation" tree that can furnish the duplicate of that plank.

Why?

Nature does not need "improving" at the hands of man and, furthermore, man does not live long enough, or know enough, to "improve" nature *in any way whatever.*

I am not going to argue with anyone about this for I state simple fact, and no argument, pro nor con, can change a *fact* that exists.

Anyone can point out a thousand instances to prove that man has, and does, "improve" nature but that is merely man's IDEA of what "improvement" *should be*, and it will not endure against the simple test of Time. Given Time any man-made "improvement" on nature reverts back to its original, or natural, form and that form endures

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The White Cross stove is 18 inches by 9 inches by 5½ inches high, made of the finest sheet steel, baked enamel finish, nickel trimmed. Burners operate independently by rotary "off and on" switches.

Uses direct or alternating current; 110 to 125 volts; takes no more current than a toaster. Almost a 100,000 of these White Cross stoves sold in past few months. Every summer cottage should have one.

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Ask your dealer—but if he cannot supply you, order direct for six days' trial. When stove arrives, pay postman only $6 and use it one whole week. Then, if not simply delighted, return it and your money will be refunded at once. Send no money—simply mail the coupon.

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Send me on approval one White Cross 2-burner Electric Stove. I will pay postman only $6. ($7 west of Rockies.) If I am not delighted after using six days, I will return it, and you will refund my money at once.

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through the ages, so don't argue, please, and try to tell me that man can "improve" nature—it can't be done.

In the article I speak about, above, are several photos showing seedling coniferous trees planted in rows! The trees were equally spaced apart; that is man's way of trying to improve on nature.

It *can't be done.*

If man would raise, artificially, a forest to duplicate the great coniferous forests of the northwest coast (or any other natural coniferous forest) he must, as a first move, plant sixty seedling trees within each six feet square of ground occupied by the original forest.

In no other way, and in no other place, can he ever raise a forest that will grow as the original forest grew, because sixty tree seedlings, to six feet square of ground, is nature's sacrificial ratio used in producing *one* six foot diameter log one hundred feet in length.

I am *not telling you how to raise a forest.* I am telling you how nature raised hers. And I am pointing out the fact that nature's laws are as fixed as the mathematical fact that two and two are four.

If those who try to re-forest the land are ever to succeed in reproducing nature's work, they *must follow the laws of nature.* This they do not, and will not, do because man thinks he knows more than nature does, and he is always going to "improve" nature; every time he does this in reconstructing a forest *he will fail.*

Why?

Because a forest is always a result—never a cause.

Results are products of law; change the law and you change the result. Nature's laws were all tested and proven out before the first man was born; they have never been changed in any way since.

Man does not know enough to change the law, therefore he will fail.

How does the law work in relation to the natural forest?

Nature plants sixty fir trees on each six feet square of ground to be occupied by the forest. This number is average—not a fixed, inflexible unit, but average run of the forest growth, of a forest of Douglas Fir, Hemlock and kindred trees, growing west of the Cascade mountains, north of the Columbia River, where the greatest atmospheric humidity is found coupled with rather high mean average temperature. Here is where the greatest coniferous forest the world has ever known was placed by nature and it thrived ever since trees have been on earth.

The rainfall here averages probably the highest on the continent for the average year.

The daily temperature shows a small range of average fluctuation for the year and no great contrast between winter and summer; in other words the climate is mild and damp, therefore there is plenty of water in the air and no great cold or great heat for the tree to endure.

This condition absolutely must last for a thousand years, unchanged after

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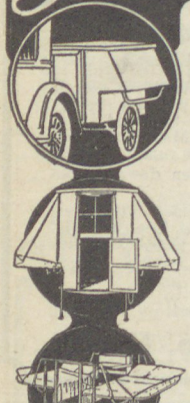

Above view with canvas covering cut away shows interior arrangement.

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you set out your seedlings that will mature a thousand years from planting.

The trees that grew here got as much from the air as they got from the ground consequently they grew under conditions that approach the nearest average ideal to make a forest of perfect trees of their species.

That is why the greatest coniferous forest known to man stood here up to as late as fifty years ago.

Nature sets them, not in rows, but hit or miss, averaging sixty to each six feet square as seedlings and then lets them alone for a thousand years! This is necessary in order to force the trees to grow up for sun and air to pull out the length of trunk to make the long log.

Nature knows that at the end of a thousand years one of those sixty trees will stand where sixty seedlings stood one thousand years before and that the average tree in the forest so produced will be perfect.

(The life span of man is too short to see this, so he must look backward to the date of the planting to get the story and that he has failed to do.)

Nature averages, in her sacrifices, fifty-nine seedlings to produce one perfect adult tree.

While this production of the one perfected forest tree was being carried out about fourteen and one-third generations of men were born, lived and died.

Yet that single one-thousand-year-old tree out of every group of sixty seedlings had not yet reached its maturity! It may live on five thousand years after it reaches maturity before it is ripe.

That means it will outlast five times fourteen and one-third generations of man—seventy-one and two-thirds generations of men isn't it, brother? You never thought of that did you?

We men merrily take our little saws and spend half an hour cutting that five-thousand-year-old tree down so we can make a few shingles or boards out of it because man thinks he can then plant a row of seedlings that will give somebody else a chance to cut a row of trees five thousand years from now!

What do you think of us who do that? Doesn't it look a bit as though we were a trifle short on brains?

King "Tut" lived somewhere back close to the time our present forest trees were planted, didn't he?

Or was he born two or three centuries later?

Columbus wasn't born until quite a while later, was he? What's been done since then?

It doesn't matter.

Now listen.

If we men really want to "re-forest" in a way that will do any good—that will accomplish what we want done we must, first of all, recognize that we must play the game according to already established rules and in no other way.

We are now ready to begin to plan our future forest.

Our next step is to pick out the ground where the forest is to stand.

This must be exactly where a like natural forest originally stood before

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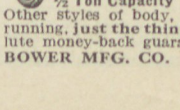

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man attacked it, for where that original forest grew is the place nature picked as the nearest perfect for a forest of its kind to live, thrive and reach individual perfection.

We will never in the world grow a like forest on ground that nature has not used for forest for thousands of years—don't forget that.

We must next reserve this place, plant our seedlings, sixty to the six feet square, and go away and let them alone for fourteen and two-thirds generations of men; then and not until then can we come back and find a forest such as grew west of the Cascades, north of the Columbia River, up to fifty years ago.

I state fact, not guess work; if you come here a doubter I can take you out and show, and prove to you, everything I say, and you will have to admit that I state only fact.

If we interfere with, or try to "improve," this forest in any way within the allotted time our enterprise will fail.

Now on top of our planting, reserving, etc., we had better take out a little insurance for nature has a few tricks up her sleeve yet and may take a notion to "bust" us wide open.

How?

All she would need to do would be to rattle the bones of the world a little bit and our cake would be dough—our forest would die overnight, or of slow starvation.

A few active volcanoes would do it, one way.

She could close Bering Strait and create another ice age.

For another way, she could poke a row of mountains up out of the sea, four or five hundred miles west of the Cascades, run them parallel to the present coast, swing the ends up to the mainland at Alaska and southern Oregon, and our forest would die in its tracks. (And nature makes no task of doing just such stunts.)

Why?

Because continental contours would be changed with the upheaval and with this, ocean currents would change, and that would change, entirely, the present climatic conditions; then our forest would cease to be, because continental contours fix ocean current directions and these fix moisture supply, which is distributed by winds blowing in fixed directions, controlled by the relative positions of mountain ranges to water-supply and wind-current directions—; trees follow these conditions and die when such conditions change.

Oceans furnish the moisture; temperature conditions lift it into the air; wind currents, in the shape of cyclonic storms, transport it; mountain ranges at right angles to the direction of storm wind-flow precipitate the storm-borne moisture by cooling the warm water-laden wind which is motive power of the whirling storm.

This storm spins opposite to the movement of the clock hands and travels, as a whole, around a center which moves eastward for from one to eight, or more, thousands of miles.

Our forest grows only on the west,

(Continued on page 61)

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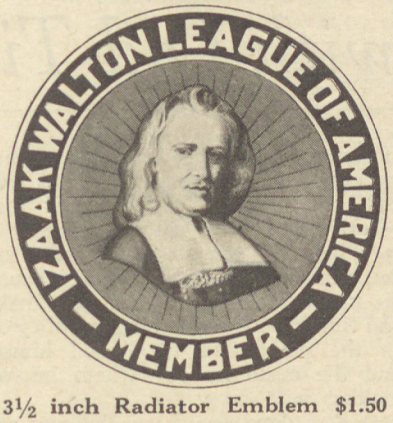

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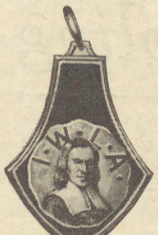

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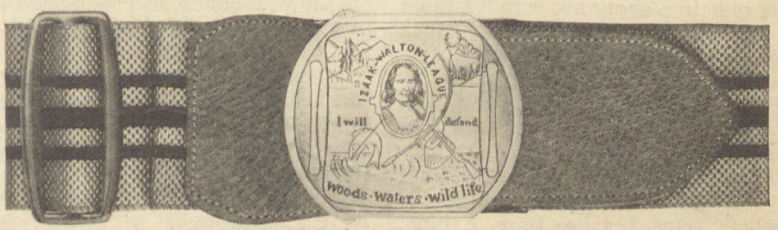

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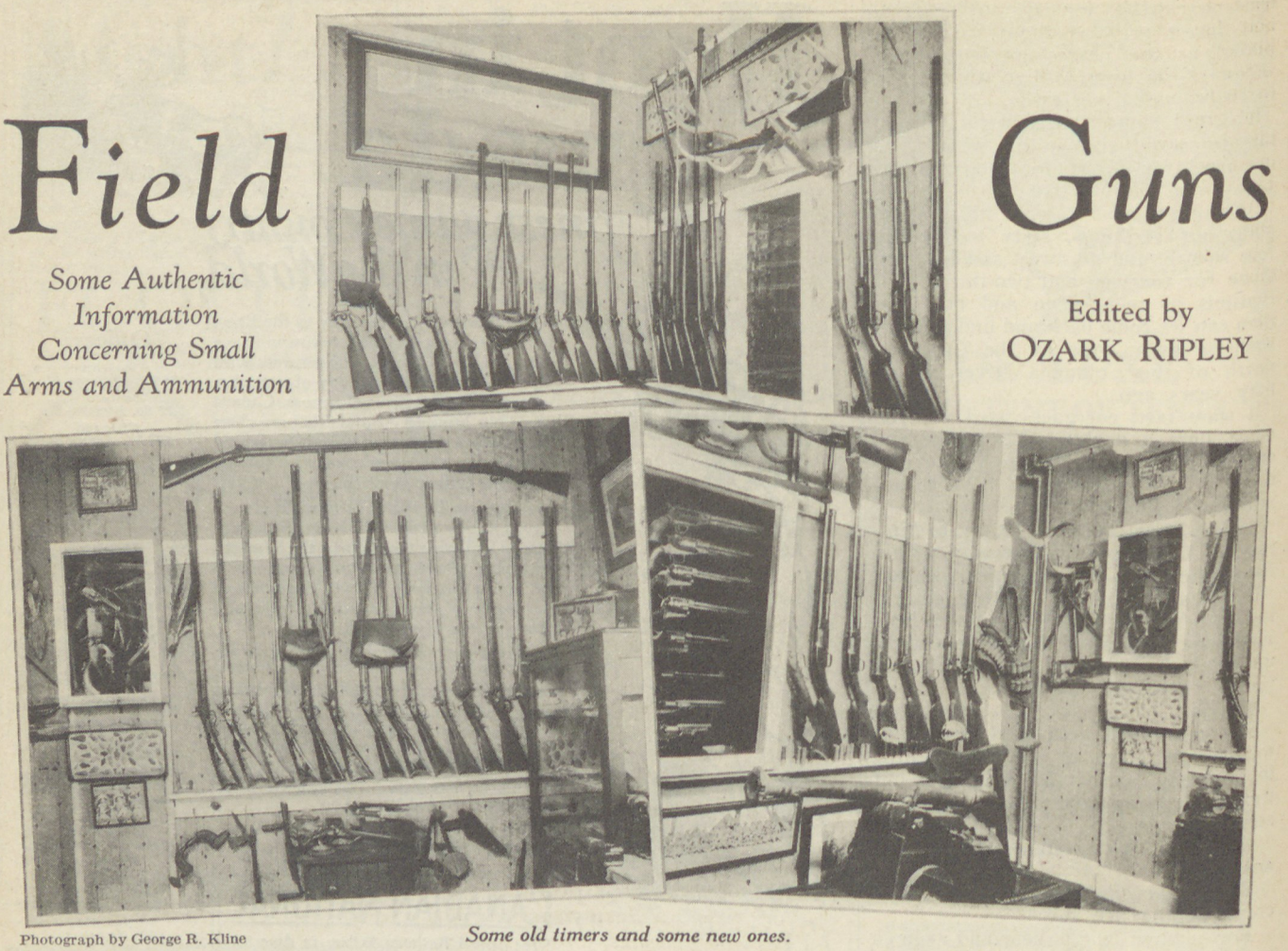
Field Guns

Some Authentic Information Concerning Small Arms and Ammunition

Edited by OZARK RIPLEY



Photograph by George R. Kline

Some old timers and some new ones.

Fooling with Old Time Guns

THERE is doubtless a great deal of sentiment attached to old firearms; and were it not for that few collectors would be in evidence at present, nor would we regard everyone we see with such tender feeling. I admit gracefully that I can seldom look at an old rifle or shotgun, whatever its make or quality, without bestowing considerably more than casual notice. In fact, I believe a certain tenderness exists on my part for them, which is perhaps nothing more than a subconscious visualization of their capabilities years ago, as well as interest in the artistry the maker displayed.

Perhaps I am a bit prejudiced in favor of old time shotguns because those who created them lavished so much handwork on them. It may be, too, that curiosity is a great factor in my interest or the thought of how well they achieved their duties on game is manifested to an exalted degree. Strangely, too, I have no prejudice whatever against modern machine- or hand-made arms, because I am, I think, quick to see the improvements they embody, which are most necessary for present-day hunting and trap shooting conditions.

Despite certain outstanding crudities of constructive or ornamental nature, the old timers finished their guns well, and, best of all, they balanced them beautifully. They had no necessity of speeding up production unless the sudden call from warring people caused an unusual demand. The gun maker had time to plan and complete his work to the point that it pleased himself and the customer for whom he was making it.

A few days ago I was looking at a jewel from the hands of some old maker with both intense interest and a desire to see what it would do with modern game birds, at the ranges they flush from the gunner, and, most of all, how I could accommodate myself to that antiquated little marvel of a firearm.

There was nothing to indicate who had been the maker. A few stampings to emphasize its German manufacture, as well as the light color of the walnut stock, was all there was to disclose its origin. It fitted me perfectly, as though it had been built to order for me. The engraving was painfully elaborate, yet exquisitely achieved. It failed by measurements to come up quite to our present day 20 bore, but so near it little room remained for arguing the point. And it had a sweet trigger pull which suited my proclivities in that direction, about four pounds. Further description includes that it was a double-barrel, flint lock shotgun which the owner had kept in remarkably perfect condition.

I wanted ever so much to try that little 5¾ pounder on quails and other small game, though I was a bit charry about shooting it until the owner told me about its potentials and the proper loads of black powder and shot upon which it functioned safely. I knew well that in wing shooting or shooting at running game, time, as in all things, had to be considered; however, that darling little gun came to my shoulder smoothly and almost lined itself accurately upon any object at which it was aimed.

I missed my five first shots on quails in timber. Those speedy flying birds seemed to get behind trees and out of harm's way before my pellets sped in their direction. After a time in the open I became accustomed to the sputtering flash of the pan and began dropping birds with considerable regularity within twenty-five yards. Just a little later in the cover I began to solve the problem of the little arm almost as effectively. There was one thing, at

least, I had no need to worry about, and that was that I would exceed my limit of fifteen birds per day before the day was over. It required time to reload and I was very slow at that. The green young dog that I had with me also saw to it that I was going to make no fast scores on scattered birds. Usually he had most all of them flushed before I had loaded, reprimed my pans, and was ready for another shot.

I was anxious to learn during this tremendously interesting day whether this arm would be more of a game saver than the modern one of the same bore. I am still not quite sure it would be if legal limits were adhered to in places where game is fairly plentiful. The same with furry game, though many opportunities are missed during the process of reloading, which would help the conservation side considerably. Then it is doubtful whether there are enough of these precious old firearms or sufficient devotees to experimenting —granting they had the time—who would care in the least to fool with them.

Another experiment, equally as pleasing as that with the flint lock, was one with a 12 bore Manton with 32″ barrels. The gun weighed exactly 7¾ pounds, fitted me quite well and was well manufactured. The condition of the locks and barrels was excellent. It was not so long before I realized after all, since I had graduated from the muzzle-loaded stage to the breech loader, that I was lacking any in familiarity as to just what shot contents and powder I ought to give it. The measurements were on the shot and powder flasks, which accompanied the arm.

I first tried this arm out on snipe. Strangely, what first bothered me was the hammers. I got over that, though occasionally I forgot to put on the nipples the necessary percussion caps. I was at last to learn why the gun had not fired after the hammers fell. Then, suddenly, I realized my sin of omission and the precious little caps of bright metal were forthcoming. I found no more difficulty in stopping snipe with this muzzle loader than with any of present vintage, though it was no joke to load it while standing in muck or water with the butt on my big toe or some other part of my anatomy, to keep it dry or solid for ramming in the charge properly.

While shooting ducks with this gun I had little difficulty after I learned something. I had to school myself especially at distances to proper timing. There was quite a bit of difference in the speed of black and smokeless powders. It affected me through the years of shooting with the latter. Furthermore, I found myself taking the gun from my shoulder too quickly to see through the cloud of smoke what I had done. I was so over-anxious in this respect at first that it was the cause of some inexcusable misses. With my right barrel, however, I found myself stopping birds at last with regularity, but somehow either the smoke bothered me or I anticipated this unreasonably, and my records on doubles

(*Continued on page 60*)

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J. J. "Gus" Gromme, Sportsman.

My Best Fishing Experience

By J. J. Gromme

I *HAVE* been a constant reader of different sporting magazines, and have read many letters by sportsmen from various parts of the United States with the greatest possible amount of pleasure. It has always been a recreation to read what others have to say, so I thought perhaps some of the readers might enjoy reading about a fishing trip taken recently by an old "has been."

I have been an invalid for nearly thirteen years owing to rheumatic complications. For about 18 months, up to August 26, 1918, I was obliged to use crutches in order to get around at all. During that time and for about ten years before then I went trout fishing occasionally with a nephew of mine. I could only go to places where the going was good, and I could sit down at a good hole on a camp chair (which I put over my neck to carry when moving from one place to another) and do still fishing. In that way I landed some nice trout though a few large ones got away on account of my inability to always properly handle the rod, but I did enjoy the fight while it lasted. Unfortunately later I broke my right leg. That seemed to be the end of my trout fishing career for I have been confined to my bed ever since. At that time I realized to my sorrow that I was down and out. I could not stand, much less walk; my hands, arms and legs were in a badly crippled condition that had been gradually coming on for several years. So I made up my mind that if I expected to live the remaining years of my life cheerfully and not make those around me very unhappy, I just bow to the inevitable and make the best of my condition, which I hope I have been doing.

Each year since my accident my nephew has been trying to get my consent to his taking me fishing with him, but knowing what a job he would have if I went, I repeatedly declined, feeling that it would take all of the joy out of his trip. However, he always assured me that the greatest part of his pleasure would be in making me happy for a few days. So when he came to me last July with a masterful insistence and the information that he and my son had talked it all over, and in the course of a few weeks they were coming to take me out and that further resistance was useless, I consented to go.

My nephew is a man six feet four inches tall and weighs 220 pounds, and I weighed when in perfect health 150 pounds—5′-10″ tall. Do you blame me for going with such a strong argument against me? On Friday evening, July 27th, my son came home to spend the week-end and told me to be ready to go the evening of August 3rd. I promptly had him bring my fishing tackle box and what other paraphernalia might be necessary for the trip and gave it a thorough inspection. Each day following was filled with delightful anticipation of my coming trip. On Friday evening, August 3rd, my nephew and his son and my son arrived. I was comfortably placed in the seven passenger Studebaker car and with another grand nephew our party was completed.

At eight-fifteen we started on our eventful trip. The atmosphere was balmy and refreshing—oh how glorious it seemed to be out in the open air! That was the second time in five years that I was dressed in a suit of clothes. Don't you think I was going some for an old has been? I don't think it is hard for any of the old sportsmen to imagine my feelings. I was a young man again—63 years old. Philosophers tell us "We are as old as we feel."

We arrived at our destination located on the Pine river about 3½ miles east of Wild Rose, Wis., and three miles below the State Fish Hatchery. After the usual hand shaking and whole-

hearted welcome expressed in word and action, we visited for half an hour, then retired to our respective rooms. My son put me to bed and fixed me comfortably for the balance of the night, then with a loving smile and a fond good night, retired to the adjoining room so as to be near me.

At 6:30 in the morning he came to my room dressed and put me on a chair, then with a nephew (who had been out since 3:30 A. M. and just returned with five nice Rainbow trout) carried me to the table where we met three other fishermen from Milwaukee. Elmer and Tillman had also just returned from the mill pond, the former with a Rainbow trout. Some wonderful fishing stories were told—of course the big ones all got away. After breakfast my son and nephew carried me about 400 feet from the house to a place at the pond where the stream flows near the bank and where the boys had fixed a platform, on which they placed me with the chair.

My son did not do any fishing as he brought a large camera and spent his time taking scenic photographs to be used at the museum for backgrounds in cases of mounted birds and animal groups, scenery to be enlarged in oil paintings.

The water was extremely low and clear. I did not get any trout but I did some tall thinking. I sat there daydreaming for more than four hours, dreaming of green meadows, woodland and streams and the wonderful out of doors, its beautiful creations and blessings. I was thinking how fortunate I am. Although I am as helpless as an infant as far as my arms and legs are concerned, yet I was outdoors actually fishing on the bank of a famous trout stream. I consider myself one of the most fortunate men living.

I was aroused from the reverie in which I had fallen by the sound of my son and Tillman's approach at noon, coming to carry me back to the house where dinner was prepared and after a few minutes wait we sat down to enjoy a very appetizing meal.

All of us were on hand and did justice to the tempting viands set before us. After dinner my son and nephew advised me to lay down for an hour or two. Thinking prudence the better part of valor, I did lay down until toward evening.

After supper I went out again for an hour and a half but did not catch any fish. Tillman got one, a half pound one that satisfied us for the day and we went back to the house happy. We retired early and got up at 6:30 Sunday morning August 5th. After breakfast we went back to the pond and T. A. went upstream in the jungle and got two ¾ pound Rainbow trout, the rest of us drew a blank.

We had a lot of fun talking, joking and again enjoying the delightful atmosphere of a perfect day. At noon we all arrived at the house in the best of humor just in time for dinner which was enjoyed by everyone. After dinner we compared notes with the other fishermen and found luck was about even. Trout were not hungry. Our

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A Super 10 ga. Ithaca kills 10 to 15 yards farther than any 12 ga. because the 1⅝ oz. 10 ga. load carries fully a dram more powder and ¼ oz. more shot than the heaviest 12 ga. The little .410 Ithaca is a winner. Send for 1926 Catalog.

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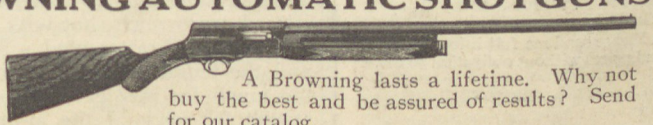

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BROWNING ARMS CO. OGDEN, UTAH

party of four got nine nice ones—the other crowd about the same. Neither flies, grasshoppers, nor angleworms would tempt them, but that made no difference—we had a delightful outing and were satisfied. At three o'clock we started back, a drive of 65 miles and arrived at my home at 6:15—just in time for supper. I was not fatigued in the least.

We had a glorious time. The fact that we caught no fish amounted to nothing—the joy of my trip was not measured by the number of fish I got—what really did count was the wonderful opportunity of being in the great outdoors with my own son enjoying the beautiful scenery and breathing the fresh air so free and healthful to all mankind.

My son and nephew are planning another trip for me next year and I will be glad to go.

Field Guns

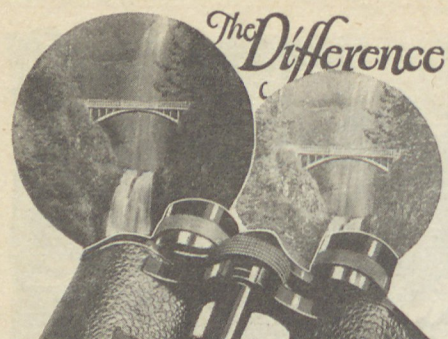
(*Continued from page 57*)

was nothing to brag about. As birds came in close to the decoys I tried no long shots. But I realized that an old muzzle loader cylinder-bored at reasonable range is a deadly weapon in the hands of any man who cares not for haste in loading. Needless to say, in all these muzzle loading experiments I used drop shot.

My last experience with a muzzle loader was with a rifle, a hand-made affair, fabricated by some early settler in eastern Tennessee. There was no sign of the maker's name, but his devotion to lavish ornamentation and exceedingly fine finish were conspicuous. I took caliper measurements but the bore was about .25 caliber. The old-fashioned bullet mould was no more willing to give up the name of the man who made it, or the size of the caliber, than the fine rifle. I knew right off that the big heavy barrel was too much for me, and I would have to go gingerly with it over the rough gong or the imposition of weight would be felt too early in the day. The long barrel did not bother me to line up, as I was accustomed to that type of old-fashioned plain sight, nor was there any danger of that ponderous piece of metal whipping.

The game of the day was squirrels. When they were at rest, I could hit them, but it required time. The flint lock did not bother me half so much as the awful weight of the barrel. Veritably, I almost staggered under the impediment when I first began to line it. It surely was accurate, and brought down its game.

Ordinarily, I can quite frequently kill squirrels running on a limb or trunk of a tree, as well as on the ground, with a modern .22 caliber rifle. I missed every such shot with the muzzle loader that I attempted. The weight and the length of the long barrel were too much for me; every time my bullet struck far back of the agile little tree rat.



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It is that unmistakable "difference" in definition, clearness and expansiveness of the field which has given to Hawksight the rating of super-power binoculars and created a nation-wide demand.

Exceptional Value at $24.85

Made in France, 8-power lenses, 27 m.m. objective, 119-yard field at distance of 1000 yards; fine achromatic prisms, beautifully finished, entirely dust proof, accurate adjustments, each glass engraved with our name and serial number; furnished with black sole leather plush lined case including shoulder and neck straps.

Specially priced $24.85, all carrying charges paid, under absolute guarantee of satisfaction or money refunded after two weeks' trial. Established 1870; reference, any bank in Atlanta. Enclose check or money order. Glasses shipped day order is received.

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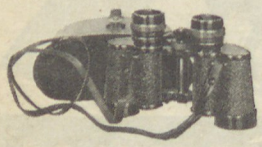
33-Z Whitehall St. (*Opticians*) Atlanta, Ga.



This is an eight power Zeiss binocular of very large objective, fine definition, great light gathering power, and a wide field—at three thousand ft. the field is 150 yards.

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The raised rib elevates his line of sight above the arcs of the barrels, gives a clearer field of vision. He's freed from the annoyance of rising heat waves resulting from sustained firing.

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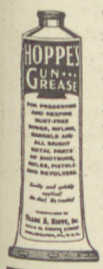
Summer Humidity Has No Mercy for Neglected Gun Bores.

Tide your guns over safely to Fall's dry artificial heat indoors—with its constant temperature, no sweating. Use Hoppe's Nitro Powder Solvent No. 9

The one reliable cleaner for both after shooting and between seasons. Absolutely prevents rust. Standard for over 20 years. Recommended by Uncle Sam. Send 10c in stamps for sample.

Oil and Grease

Complete the job with Hoppe's Lubricating Oil and Hoppe's Gun Grease. Refined and compounded for the world's most discriminating users of firearms, the countless old friends of Hoppe's No. 9.



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Every gun tested with an extreme load. A standardized gun built only in .410, 26 in., 20 ga. and 16 ga., 26 in. and 28 in. 12 ga. in 26 in., 28 in., and 30 in. A Lefever won the World's championship at the Olympic games in London. Lefever has stood for service and durability for over 50 years.

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Makes old guns like new

Easily applied with a brush. No heating is necessary. Restore the finish on 5 guns in ten minutes for..... **$1.00**

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If you want to get a new slant on sport, try a day or two during your hunting season, with an old-fashioned muzzle loader. Probably the first day will cause you, more than anything heretofore in your life has done, to measure sport by the quality and not by the amount of game killed, and that is really worth something.

Trees of Tomorrow

(Continued from page 55)

or windward, side of these mountain ranges and it depends for life entirely on the stability of these fixed climatic conditions for a period of not less than a thousand years and up to five thousand years. Without these fixed conditions the forest would be impossible.

Our forest is a result of just this set of conditions and nothing else so if we want our forest to grow, and thrive, and be ripe, five thousand years from now, why we must take out our insurance against any change of continental contours for the next five thousand years!

Then, if we play the game exactly according to nature's rules as laid down in the dim fog of the beginning of time, a new forest will stand or fall, grow short or tall, clean of trunk, or full of knots, according to how much we know and what we do with the knowledge; but don't get the idea that we can fix up a little plan of our own and get nature to accept it as an "improvement" for we must find out how to make two and two make five before we know enough to "improve" nature in any way whatsoever, no matter what we think about our own ability or greatness; we are merely a little working part in the grand whole plan that takes notice of no one thing more than any other and man is no exception no matter what he may think about it.

If he disregards this set of facts he is a failure before he begins, nor can anything change that truth.

Write to El Comancho

And tell him what you think of this tree series

Pollution in Wisconsin

(Continued from page 25)

A. L. E., and for the plant C by the curve A. N. I., but since the stream had not entirely recovered from the reduction in oxygen due to A when it reaches C, the maximum combined effect of plants A and C is indicated by the reduction at point P, practically on the line VW, but not below. Plant B is later installed, and the resultant reduction in dissolved oxygen just below B, due to the wastes from both A and

Wherever the utmost is demanded

With Amundsen to the Pole, with the Roosevelt Brothers Expedition, with the Rice Expedition up the Amazon, with Roy Chapman Andrews on the Third Asiatic Expedition—wherever the utmost is demanded, you will find Zeiss Prism Binoculars.

Zeiss Prism Binoculars have won world-wide preference because of their superior optical qualities. They have a wider field of view, and strikingly sharp definition.

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KRAG CARBINE STYLE

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Another Lot Just Received! 12-in. Blade No C. O. D.

KRAG BAYONETS 40c. ea. Postage Extra

With scabbard. For use in home, store or outdoors. 2½ lbs. *CATALOG FREE ON REQUEST.*

Army—Navy—and Sporting Goods

W. STOKES KIRK, 1627-C M, North 10th St., Philadelphia, Pa.

RUSSIAN SPRINGFIELD SPORTING RIFLE

$10.45

5 shot using the U. S. Army caliber 30, Mod. 1906 cartridges. Weight, 8 pounds. Length, 42½ inches; barrel, 22 inches. Turned down bolt handle. Special price, $10.45. Ball cartridges, hard nose, $3.50 per 100. Web cart. Belt, 40 cents. **Tents,** cots, **Messpans,** canteens, **Knapsacks,** haversacks, **Outing Suits,** hats, helmets, **Saddles,** bridles, **Bugles,** lariats, **Medals,** etc. **15 Acres Army Goods. Catalog 1925, 60th Anniversary** issue, 372 pgs., fully illustrated, contains pictures and historical information of all American Military guns and pistols (incl. Colts) since 1775, with all World war rifles Mailed 50c. Est. 1865. **Spec. New Circular** for 2c stamp.

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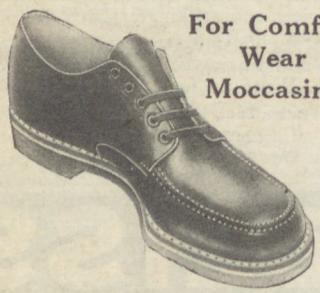

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Like Walking On A Velvet Carpet

That's the way it seems when you wear a pair of the Bass True Moccasin Oxfords illustrated above.

The True Moccasin Construction with its single piece vamp, the pure crepe rubber sole and the soft, serviceable upper of beautiful brown Elk are a combination that please not only your feet and eye, but also your pocket book.

No. 610 is only one of many styles for men and women. Send for free Catalog O and price list.

G. H. BASS & CO.
WILTON, MAINE

B, is indicated at the point O below the critical line VW. The condition is more critical below C as indicated at Point R, because of the combined waste from the three plants.

Under such conditions, it is only natural for people to assume that plant B is the cause of the objectionable conditions, because the situation was not serious until this plant was placed in operation. Yet a study of conditions indicates that the wastes from each plant consumes oxygen to practically the same extent and that each, therefore, contributes to the pollution quite as much as the other.

All sources of pollution tributary to a stream, therefore, may be considered contributing causes unless they are so far apart and conditions are such that the stream has entirely recovered its loss of oxygen through natural processes by the time it reaches the nearest point of pollution below.

What are fish worth? If this were answered by what they actually cost, I dare say that every angler would agree that every pound of fish he ever caught cost many dollars. The value of commercial fishing in the state is about $754,000 annually. The Izaak Walton League, however, is primarily interested in game fish, the actual value of which as a food product is probably negligible. But is the actual food value the only value of fish and fishing?

The highway department, by careful estimates, have concluded that tourists spend thousands of dollars annually in the state of Wisconsin. Why do tourists come to Wisconsin? Based upon 676 replies to questionnaires received in 1923 by the highway department, 8.7% came to Wisconsin to fish. In 1925 6.4% came for the same purpose. In addition to this, 24.3% came for vacation in 1923, and 23.8% in 1925. It is probable that a large number of those who came for vacation, selected Wisconsin because they expected to find good fishing. It is, therefore probable, that at least 10% of the tourists visit Wisconsin primarily because of the possibility of good fishing. This then represents many dollars annually as the value of game fish.

The state highway survey also indicated that over 800,000 cars from other states entered the state in 1924, and that the average travel of each car was 586 miles or a total of 468,800,000 miles travel. If each car averages 15 miles on a gallon of gas, this represents a gas tax revenue of approximately $625,000, 10% of which is approximately $62,500, that may be said to represent the tax revenue of good fishing facilities.

Probably one of the strongest arguments for protecting fish life is its incentive for individuals to get out of doors, enjoy natural scenery and come into closer contact with nature. This is a factor which it is impossible to measure in any definite units, but one in which every member of the Izaak Walton League is most vitally interested. One does not go fishing only for the fish caught, but rather for the purpose of being out of doors and getting into closer touch with nature.

GERMAN ARMY OFFICERS' FIELD GLASSES

8 power $9.85 Postpaid

For hunting, motoring, the races, ocean travel, bird and nature study, etc.

These genuine German War Glasses were purchased at exceptionally advantageous rates of exchange.

Manufactured by most prominent of German optical factories. Many were received direct from the Allied Reparation Commission. Conservative $20.00 value.

Finest achromatic day and night lenses, 40 m.m. objective. Dust and moisture proof. Pupillary adjustment. Built for service, regardless of cost, according to strictest military standards. All glasses guaranteed in perfect condition. We have sold 95,000 pairs of this model to date.

Shipped promptly on receipt of check or money order for $9.85. Positive Guarantee of full cash refund if not satisfied.

Order your field glasses today.

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SUCCESSORS TO
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JOSTAM MFG. CO., 5252 Broadway, CHICAGO
Largest Mfgrs. of recoil pads in the world

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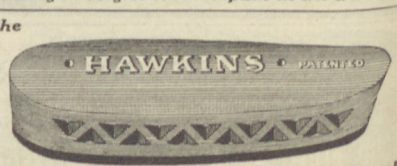

RECOIL PAD, $3.25 *Write for Circular*
THE CUSHION PAD CORPORATION
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Furthermore, the incentive to get out is undoubtedly a big factor in building up the constitution and protecting public health.

Under existing laws the State Board of Health has jurisdiction over stream pollution where health and comfort are affected (Section 144.03 Wisconsin Statutes), but the Conservation Commission has control where fish life only is affected (Section 29.29 Wisconsin Statutes). Although the State Board of Health has cooperated with the Conservation Commission in the past as far as its limited personnel would permit, no specific funds were available for control of stream pollution affecting fish life till July 1, 1925, when the last legislature appropriated ten thousand dollars annually to the Conservation Commission "to be expended in cooperation with the State Board of Health in a manner agreed upon by the Conservation Commission and the State Health Officer."

Conferences have been held by the two departments, and a tentative plan of cooperation has been outlined. Considerable work has been done during the summer by the regular personnel of the State Board of Health, but because of necessary delays in selecting satisfactory personnel, no addition was made to the force till October 1st, when an engineer trained and experienced in industrial waste problems, commenced work with the Bureau of Sanitary Engineering, State Board of Health. Another department that may have indirect jurisdiction is the Railroad Commission in its control of overflow or discharge from power development dams, an essential factor to protect fish life at times of low water. With these three departments having jurisdiction, there is no central or controlling body, and none has definite authority to order installation of treatment plants or methods of operation to protect fish life, although the State Board of Health may make such orders when health or comfort are affected. The Conservation Commissioners, however, has indirect control through Section 29.29, a violation of which may subject the offender to a fine of one hundred dollars for each offense. Each day of such discharge may be considered a separate offense. Although indirect, this control may be made reasonably effective, but were it enforced to the letter, many industries including every paper mill in the Fox River Valley would be compelled to close.

It apparently has been the policy of industries in the past to give little or no consideration to adequate treatment of their wastes till forced to do so. So far as the writer knows, no Wisconsin industry is voluntarily doing experimental work or even making a study of its waste disposal problem. It is believed, however, that they are awakening and will do their part if the state and municipality will lead the way and outline a constructive and practical program. Unless some practical and constructive work is done, and the industries indicate a proper spirit of coopera-

(Continued on page 67)

$193 WORTH OF EQUIPMENT FOR
BIGGEST RAINBOW OR STEELHEAD TROUT

Field & Stream

16th Annual Prize Fishing Contest

is now on. No fees to pay. Open to all, free of cost. There are 13 classes of fresh and salt water fishes, and a string of prizes in each—$2,781 worth in all—including

$134 for Biggest Small Mouth Bass
$138 for Biggest Large Mouth Bass

A GRAND PRIZE WORTH $320

A 2-lb. brook trout, a 3-lb. rainbow, a 2-lb. 12-oz. brown trout, a 3-lb. 8-oz. small mouth bass and a 6-lb. 12-oz. large mouth bass, and other moderate sized fish have won valuable prizes in previous years. Think of the prizes a lot of you boys have let get away from you! Don't do it this year.

Full details of conditions, classes and prizes are in the July issue. Get it today from a newsdealer. Or, better still, send us $1 for a 6 mos. subscription

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Russell's "Neverleak" Chief

A GENUINE moccasin boot, single vamp style. Favorite footwear of the "old-timers" for years. Has Russell's famous, patented, "Never-Rip" Seam. Made of Paris veal, chrome tanned — the finest-grained leather we know of. The finer the grain, the better it will retain oil and its waterproof quality. All heights, 6 to 20 inches—army last. One of many styles for outdoor men and women.

Ask any dealer who sells (or ought to sell) sportsmen's footwear. If he cannot show you Russell's, write for catalog, select and have him order for you.

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If COMFORT Were All!

But It's Not!

Filson Clothes give *long wear* and appearance;—as if you *belonged* in the open.

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Our Catalog "Q" Free. Your copy awaits your address.

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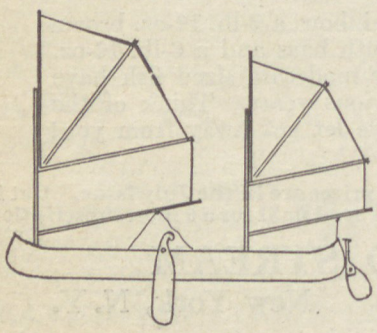
Canoes and Small Boats

Devoted to Small Craft

Edited by EDGAR S. PERKINS
Editor WATER SPORTS, the Only National Canoe Magazine Published

Sailing Canoes and Rigs



No 1.

THE highest type of a sailing canoe is the decked canoe, a craft which has been made for sailing use only. It is generally an all-wood canoe either much narrower or wider than the open paddling canoe, and in most cases not longer than sixteen feet. Its name is derived from the fact that, with the exception of a small cockpit amidships, it is all decked over.

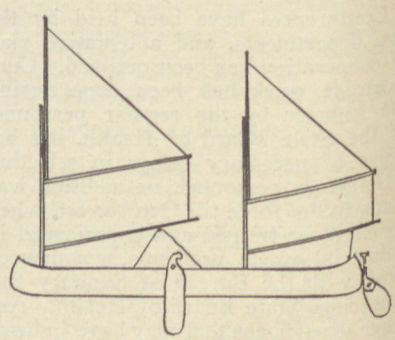
The other features that differ from the conventional open canoe, are the sliding seat which extends about four feet beyond the boat's side and the sailor steers and trims his sails while actually sitting out over the water. The seat slides much in the same manner as a rower's seat and is operated by placing the feet against the top edge of the boat and pushing with the legs or bending the knees. The rudder is equipped with a sliding rod equipment which enables one to pull it out when riding over the water, which is the usual position except when sailing before the wind. Thus the man is out over the water with the rudder stick in one hand, his mainsail sheet in the other, and operating his balance on the sliding seat with his feet and legs. The jigger or stern sails is usually cleated down. These boats carry a three foot centerboard instead of leeboards. While these boats call for skillful sailing, upsets are not dangerous as the boats are easily righted and when provided with watertight compartments are unsinkable, and are all self-bailing as the water runs out through the centerboard slot or special drains. This craft is to all intents and purposes, a racing type or for use of skilled canoe sailors.

The open paddling canoe is the more general type of canoe in use for sailing as it requires less skill and because all the sailing gear can be removed and the boat used for paddling or cruising; the only permanent fittings are the mast steps and cross-bar supports above the steps that extend from one gunwale to the other, and these latter may be secured by screws to the gunwale in such a manner as to be detachable.

On the open canoe various types of rigging may be used, such as the single-lateen, double-lateen, double bat-wing or Bailey and the single or double Marconi; the latter is considered the fastest rig for any type of sailing.

From the above, it will be noted that the lateen or Marconi, are the only two types of sails used for a single rig, and owing to the fact that the Marconi is a rather new design or, because practically all standard canoe manufacturers have in stock the lateen rig in sizes of 45, 50, 60 and 75 square foot area, the lateen is most generally used.

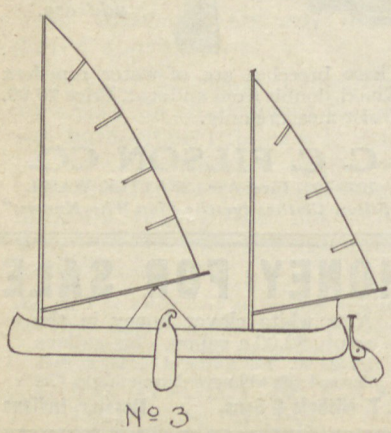
The lateen sail may be described as a triangular sail attached to two spars linked together at their meeting point before the mast. (See figure No. 4.)



No 2.

The slanting upper spar swings from the top of the mast which is short and stiff. This line is called the halyard and is used to hoist and lower the sail. The lower spar which hangs fairly level fore and aft with a slight downward tilt at its forward end has the main sheet rope fastened to it near the outer end.

While the single lateen is advocated for the beginner, this is more on account of the small area of the single sail and because it is carried in stock by all canoe manufacturers. As a matter of fact, the double rig is much steadier on a canoe than a single rigging for the reason that your principal weight is nearer the center of the canoe as are also the leeboards and the fact that the traveling pressure is more equally distributed—also has a tendency to make a more evenly balanced boat.



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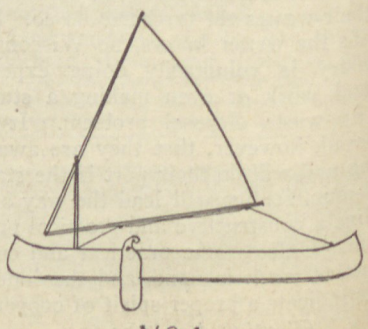

No 4.

On the single lateen, the stern seat may be used although in sailing close to the wind and especially when racing, the center of the canoe will be found a more desirable position to work from.

The following are a few general comments on sailing and this department will be glad to give any details to any of our readers at all times. Keep your halyards or lines used for hoisting sails, coiled near the masts. Do not cleat sheet lines when learning to sail. Always remember that you are the keel and be ready to counterbalance the wind by laying out on the windward side. In case you cannot counterbalance the wind slack the sheets until they slat in the wind—until the wind, if it is only a puff has passed, if it holds steady gradually tighten in the main sheet lines and you can soon tell how much of the wind you can handle. If it is just a puff of wind it can be avoided by "luffing" or steering the bow of the canoe so it is headed into the wind. This will cause your sail to slat similar to slacking the sails as noted above, with the difference that the sails will be over the center of the boat when the bow is pointed dead into the wind, instead of over the leeward side. One should always luff where anything goes wrong as the sail is easily lowered when over the canoe or any part repaired that needs it.

In addition to a knowledge of canoeing, many of our readers have written to us requesting information regarding sail and power boats both large and small, where they can obtain books regarding building, rigging and handling of same. Most news stands throughout the country today have on sale monthly, such publications as yachting, rudder and power boating magazines which contain a wealth of information along these lines.

The writer has for some time past been checking over various books published on the subjects mentioned above and has found two very complete ones which may be obtained through this department or by writing to the publishers, E. P. Dutton & Company, New York. The books are "Small Boat Sailing," written by E. F. Knight, the author of many cruising stories and one who has been well known for years in yachting circles as a daring and experienced boat-sailer. This book gives a very complete and detailed explanation of the management of small yachts, half decked and open sailing boats of various rigs; sailing on sea and on rivers, cruising, etc., and is a very valuable book to those interested in

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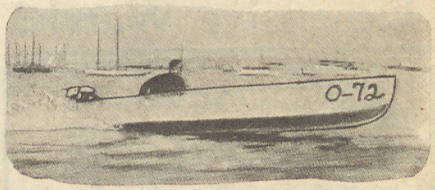

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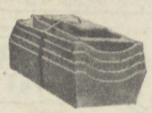

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boats of this type. The book retails for $2.50 per copy and will be the best buy a small boat sailer ever made.

The following table of contents will give you some idea of its usefulness. The selection of a boat, the effect of the wind on a boat, splices, knots and tackles; the small open sailing boat, open sailing boats with boom sails and half-decked boats; decked boats, seamanship open boat sailing, the cruising yacht, the art of coasting, description of a voyage, board of trade and other regulations affecting yachtsmen, two cruises on lateen rigged craft.

For the sailor who desire a complete book of information on yachting the writer knows of no book that he will find better suited to his taste than "The Complete Yachtsman," written by B. Heckstall-Smith and Captain E. Du-Bonlay. This book will be especially interesting to the amateur boat builder and in part is written for him particularly as it contains: Building and Sailing a Small Boat; Rigging and Knots; Seizings; Lashings and Splices, in addition to such information as setting sails, steering and handling; The Crew and Their Duties; Tides; Signals; Lights and Buoys; Rules of Yacht Racing; Measuring a Yacht; Racing at Typical Race; Comfort on Board, Dinghies and Tenders; Buying a Yacht; Yacht Designing, Principles and Details; Calculations; Ice Yachts; Sand Boats; Sea Fishing; History of Yachting; Famous Boats; Types modern versus Earlier Designs; Cruising, Plans for a six-ton Cruiser and a 15-ton Cruiser; Since the War Increased, Costs and Their Effects; The New Rating Rules. In fact everything the Yachtsman should know. The book is absolutely reliable, pleasantly written standard work, profusely illustrated with plans, diagrams and plates. It retails for $8.00 per copy.

For the general information of those of our readers who are interested in the watching of or participating in canoe regattas, please note the following. The annual camp and regatta of the American Canoe Association will be held August 14th to 28th, 1926, at Turtle Island on Lake George, New York. While this is an association affair new members are always welcome and the dues are small; only $3.00 per year. This department will be glad to furnish full information regarding both the Regatta and the Association.

In addition to a racing meet which will be attended by all of the National, International and Canadian Sailing Canoe Champions as well as practically all of the double and single blade paddling champions, there will be a Wilderness Cruising Contest, swimming and novelty events. Those who attend will also have an opportunity of enjoying a pleasant two weeks camping and paddling in one of the most picturesque and historic canoeing sections this country has. It should be an interesting and enjoyable vacation for any canoeist.

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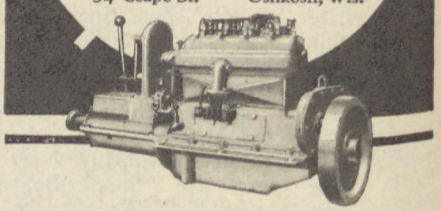

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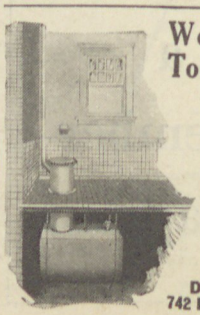

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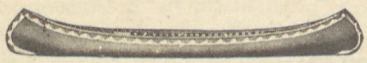
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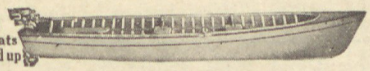
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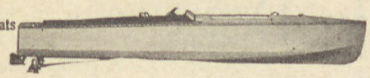
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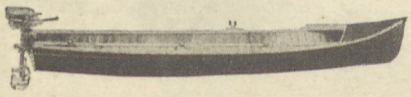

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this summer, the Middle States canoe racing association (an association of racing canoe clubs extending from southern New York to Virginia), has charge of the canoe events which will consist of a Mammoth Decorated Canoe parade and carnival of over one hundred canoes and for which there will be many cash and merchandise prizes. This event will take place June 1st and will be held on the lagoons and lakes of the Sesquicentennial grounds on the opening night of the exposition.

On August 6th, The National Junior Canoe Championship of the M. S. C. R. A. will be held over the Henly Course and on August 7th the National Senior Canoe Championships of the M. S. C. R. A. will be held over the same course. These events this year are open to all canoeists who are members of an organized canoe club that sponsors racing and there will be no entry fee charged. Full information will be furnished by this department on request.

Pollution in Wisconsin

(Continued from page 63)

tion, there is grave danger of radical legislation that will work a hardship on the industries and accomplish little. Although the ten thousand dollars appropriated by the legislature will start the work on the control of stream pollution, it undoubtedly will not be adequate for its satisfactory continuation to bring about ultimate control of the situation.

That pollution is so serious in many Wisconsin streams as to deleteriously affect fish life, particularly during the low flows of the summer months cannot be denied and, though there may be differences of opinion as to the actual value of game fish and fishing, the innate value when all factors are considered undoubtedly runs into the millions. Industries are undoubtedly the greatest factor in causing stream pollution deleterious to fish life, yet in many instances practical methods of satisfactorily purifying their wastes have not yet been developed. Considering these factors, what can be done to so control stream pollution that the serious affect on fish life may be eliminated, and yet our state be developed, both agriculturally and industrially? Prohibiting the discharge of wastes from industries into the streams is impossible, because the streams constitute the only ultimate outlet. Treatment of the wastes or control of stream pollution, therefore, is the only solution. How can this control be brought about? Is it fair to place the whole burden upon the industry, when municipalities themselves are contributing to the pollution, and their very existence may be dependent upon the industry and industrial development. A constructive cooperative program, whereby the state, the municipality and the industry each share a portion of the burden appears to be the only logical, fair and practical solution.

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Edited by V. C. EBEL

Some Phases of Heredity in Dogs

By A. E. BRANDT

WHAT chance is there, if a French Bull dog is crossed with a St. Bernard, that the progeny of the cross will have screw tails?

Can I predict what proportion of the second generation of this cross will have these characteristics?

In other words, just how much—and how little—is one able to forecast, on the basis of a knowledge of genetics, the characteristics which unborn animals will exhibit?

In the April issue of OUTDOOR AMERICA, Mr. Leon F. Whitney writes in an article called, "Scientific Dog Breeding," that, "Today, there are more nonsensical ideas connected with the breeding of dogs than with the breeding of any other animal or plant." I agree with him fully so far, but I must take exception when he says, in speaking of the breeding of swine, cattle, horses and vegetables, "A good breeder can tell you just what will happen when certain breeds are mated."

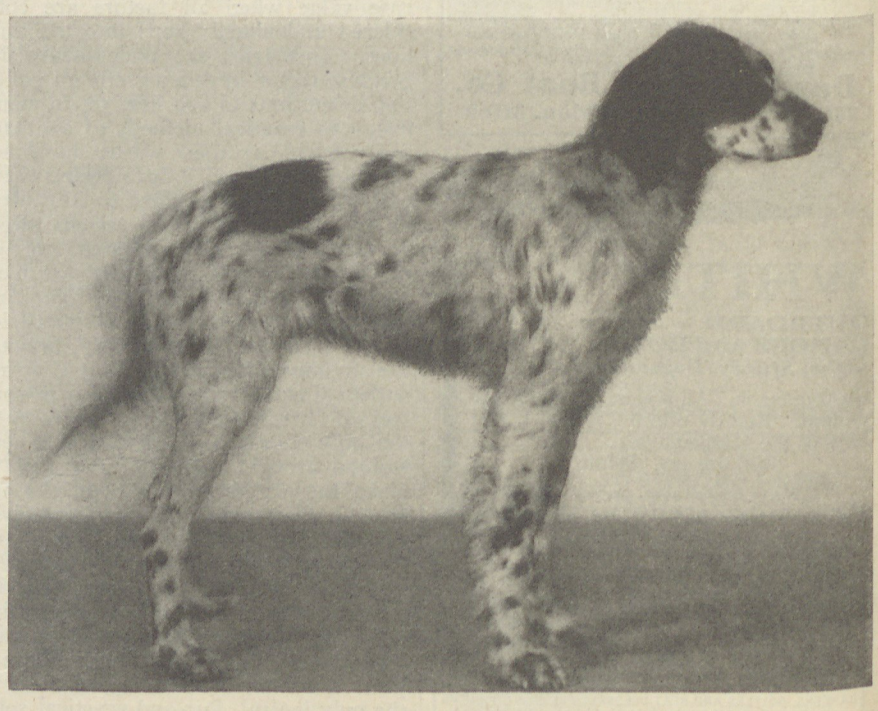
Our difference of opinion may be based on the definition of a good breeder. Personally, I consider a man a good breeder if he carefully selects his breeding stock with a definite aim in view, and if he refuses to sell for breeding purposes any animal which he himself would not use. Such a man may never have heard of Gregor Mendal or of his contribution to the science of breeding. Still, if he has a definite ideal and the proper background of experience, he may very materially improve a breed or even produce a new breed. Further, I rather doubt if a good breeder, as I think of him, would be mating different breeds, except for scientific purposes or for the production of non-breeding market animals. It would seem that there are enough breeds of dogs at the present time, and that there is room enough for improvement in most of them, so that a good breeder could more profitably spend his time improving existing breeds.

Most people will probably agree that a good breeder should aim to gain as great control as possible of heredity, so that he may mate animals in such a way that only the desirable characters will be transmitted to the offspring. Many, if not most, of the successful breeders of dogs study the individual carefully and also pay more or less attention to his or her pedigree before mating. In picking a stud dog, a man should select the one exhibiting the largest number of desirable characters and whose ancestors, including brothers and sisters, exhibit the same desirable characters to a marked degree. It is to be understood, of course, that a dog will not be used if he has the same faults as the female.

Inheritance, or at least so much of it as is understood at present, is of three kinds; independent, linked and sex-linked. Such terms as Mendelian inheritance, blending inheritance and prepotent inheritance are often seen, but in the final analysis it appears that all inheritance is essentially Mendelian. However, all phases of inheritance are not as simple as those Mendel studied in the pea, there being many modifications of Mendel's simple law of inheritance.

Before proceeding further, I shall define a few terms which will simplify the discussion.

A character is a feature, such as color, form or size, possessed by the individuals of a breed, species or group. The characters taken collectively constitute the individual. Any individual animal has numerous characters.



There is no cross breeding here.

A factor, in the hereditary sense, is the forerunner of a character. It is an element found in the nucleus of all living cells which of itself or in conjunction with other similar elements produces a character. Factors occur in pairs.

The genotype of an individual is its hereditary make-up, based upon the factors which it has received from its parents. The genotype of an animal can only be determined by the characters it transmits to its offspring.

The phenotype of an individual is its visible make-up, which depends upon hereditary factors and environment.

A dominant is a marked hereditary character of an individual which, when that individual is mated with another, appears in the offspring. A dominant individual may be either pure (homozygous) or hybrid (heterozygous).

A recessive is an heredity character of an individual which, when that individual is mated with an individual having the opposite character, will not appear in the offspring. A recessive individual is always homozygous.

An example of dominant and recessive characters is the horn condition in cattle. The polled or hornless condition is dominant, and the horned condition is recessive. If a pure polled individual is mated with a horned individual, the offspring will be polled. Thus, the dominant character has appeared in the offspring, but the recessive has been covered up.

An individual which received the same character, dominant or recessive, from both of its parents, and therefore always breeds true, is homozygous for that character.

An individual which is hybrid for a certain characteristic, that is, which receives a dominant from one parent and a recessive from the other, and therefore does not always breed true, is heterozygous.

In independent inheritance, the "factors" under consideration belong to different groups, and therefore act independently of one another in inheritance.

In linked inheritance, the "factors" under consideration belong to the same group, and usually are inherited together, that is, they are correlated.

In sex-linked inheritance, the "factors" under consideration belong to the same group as the "factor" chiefly responsible for sex, and therefore act together with the chief sex factor. An example of this is the barring color pattern in the Plymouth Rock.

Let us now examine the experiment of crossing a St. Bernard and a French Bull, to which Mr. Whitney referred in his article, in the light of the above definitions and discussion. To make the case as simple as possible, we shall assume that each dog is homozygous for each of his characters; that each character depends upon but one pair of factors; that no linkage occurs; that complete dominance exists; that the traits are long straight tail, lop ears, sable color, short hair and medium long nose; and that the recessive traits are

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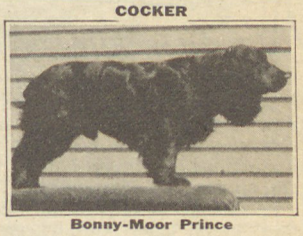

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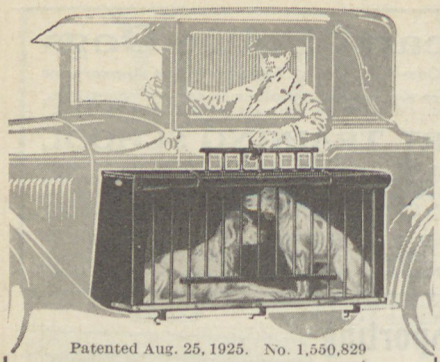

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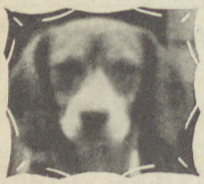

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screw tail, erect ears, brindle color, long hair and pug nose.

On the basis of the above assumptions, the first cross or F_1 generation will have long straight tails, lop ears, sable coats of short hair and medium long noses. If two members of the F_1 generation are mated, the next or F_2 generation will contain 32 distinct phenotypes and 243 distinct genotypes. Theoretically, 1,024 animals would be required to produce all of the above results. Of the 1,024 animals but one would be recessive for all the characters and therefore recognizable by its appearance. There would be other homozygous individuals, but they could be picked only by observing their breeding behavior. Thirty-two of the 1,024 would look like their F_1 parents, and would be genotypically identical.

It is very probable that the above assumptions are not warranted. The screw tail and erect ears are probably not simple recessives, for if they were, dogs exhibiting such characters would breed true. My experience with Boston Terriers does not support the assumption. Length of tail and length of nose probably depend upon more than one pair of factors each for, in an English Setter-French Bull cross, the pups had tails and noses of varying lengths. Length of hair is not a simple situation, for in the same cross the pups were long haired, in contradiction to the results obtained in the St. Bernard-French Bull cross. Linkage very probably would operate to complicate the situation, and there is a possibility that sex-linkage might occur also. It should be evident by now that heredity is a very complex affair and, especially in dogs, is not at all fully understood.

Many people will question the value of analysing the inheritance of characters if it is such a complex and difficult affair. It must be admitted that at present most of the results are of greater scientific than economic value. However, it is only through the analysis of the simpler and perhaps less important characters that a knowledge of the others can be secured. As an example of the economic value of a full understanding of the inheritance of certain characters, consider what it would be worth to be able to sell a pair of German Shepherds, for instance, with the guarantee that they would breed absolutely true, even for color, ears, tail and intelligence.

Since the hereditary makeup or genotype of an individual is derived from its entire ancestry, and not only from its immediate parents, the question naturally arises as to the importance of various generations of ancestors or of individual ancestors. The best answer to this question at the present time is Galton's Law of Ancestral Heredity. In the light of advanced genetic knowledge, this law is not applicable to single character differences, but in general it is true. The law with an additional column representing the effective contribution of each ancestor, may be given in the following tabular form:

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Generations Backward	Number of Ancestors	Effective Contribution of Each Generation	Effective Contribution of Each Ancestor
1	2	1/2	1/4
2	4	1/4	1/16
3	8	1/8	1/64
4	16	1/16	1/256
5	32	1/32	1/1024
6	64	1/64	1/4096

This shows that the immediate ancestors contribute the most to an individual's genetic makeup. It also shows that no distinction should be made as to whether an ancestor appears on the dam's side or on the sire's side. Inbreeding modifies the above law but, in general, it serves as a measure of the emphasis a breeder should lay upon the various individuals in an animal's ancestry.

Write to our Kennel Service Department for Dog Dope

State Parks

(Continued from Page 19)

sands of acres of wild, natural, untouched places throughout the country reserved as State parks. A few of the larger preserves are the Adirondack Park of 1,850,000 acres, and the Catskill Park, of 150,000 acres, both in New York. The Northern Forest Park in Wisconsin contains 98,000 acres; the Itasca Lake State Park in Minnesota, 32,000 acres; and the Custer State Park of South Dakota, 107,000 acres. Of State forest lands, Vermont has a forest of 12,000 acres; Massachusetts an 8,000 acre preserve on Mount Greylock; and New Hampshire is buying an 8,000 acre forest park at Franconia Notch. These are a few of the larger reservations, which are numerous throughout the land. Areas of smaller size also have an important part in the State chain for they are useful for camping and picnicking.

The future holds unlimited possibilities for State parks in the fascinating Southwest. There are opportunities which must not be lost, which must be seized ere it is too late. The trend of travel is to the Southwest, with its old world charm. People of the older states are eager to visit the comparatively new states of Oklahoma, New Mexico, and Arizona, the great empire of Texas, the famous Ozark Mountains of Arkansas, the delightful State of Mississippi, and Louisiana with its romantic history. There are areas all over Louisiana of historic interest and of semi-tropical beauty which should be preserved.

Though not primarily in the Southwest, Colorado, one of the mountain states, has many areas suitable for such

Fleas!

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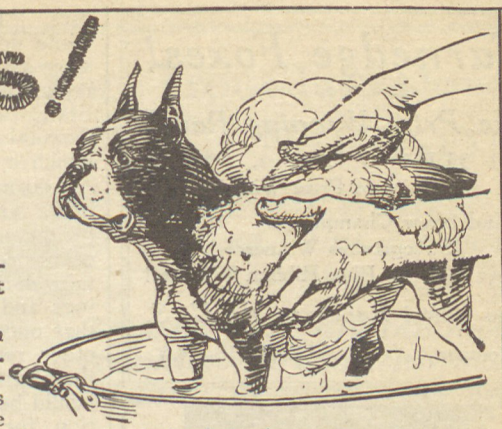

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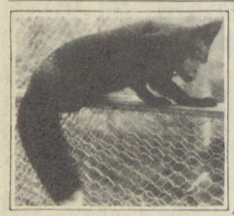

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uses. The Denver mountain parks, while not called State parks, serve the same purpose and their development is remarkable. In this much-traveled State, famous for its beauty spots and mountain scenery, there are many areas which might be utilized.

Arizona, New Mexico, and Oklahoma are each picturesque reminders of the earlier days, and the remnants of a prehistoric civilization they contain should be conserved. Cliff dwellings and pueblos of great Indian tribes that once roamed their vast plains and other remains of the old-time life of the West would make State parks that would be certain to hold great fascination for visitors from other parts of the country. Oklahoma has already established a State game preserve in the eastern part of the State and is planning the creation of a forest reserve and two State parks.

To aid in the spread of State park development throughout the South and Southwest Hot Springs National Park, Arkansas, was chosen for the 1926 annual meeting of the National Conference on State Parks.

With forty-six states actively interested in the creation of these educational and health-promoting playgrounds, compared with 20 in 1921, we are inspired to work even more vigorously in the future to make the success of the State park and forest movement close to the hearts of every man, woman and child.

An' the Ol' Line Held

(Continued from page 13)

kinda slow-like and, sez he, 'Now Lem, what did I tell you, I've got a daisy this time.'

" 'Cork's movin' purty slow like fer a daisy,' sez I, an with that Seth struck, sot his hook, and landed a half pound bull-head into the top of that old elm tree all to one operashun. Guess 'twas time to laff, but from the expreshun on Seth's face, I figered thet prob'ly I'd better wait till we got on shore. Wal while we were tryin' to figger out the best way to get Seth's line out'a thet tree top, suthin' told him to cast a eye at my bobber jest in time to see it dissappear from sight in such a hurry thet I jest hed time to git a firm hold on my pole before the eight or ten feet of slack line between the tip an the bobber straightened out. Shades of Ike Walton Silas, if I never tell another truth in my life, thet tip came down to within three feet of the end I was a'holdin'.

"I looked at Seth an he was frozed to the seat.

"Sez he, 'Lem, if it's a shark I'll jump out and wade to shore.'

" 'Taint no shark, Seth,' sez I. 'There 'aint no such animals in this lake. It's nothin' bigger'n a muskellunge anyway an prob'ly not thet much.'

"Wal I was havin' my troubles tryin' to ease up on that line at every lunge the critter made, fer, 'tween you an me I didn't have any too much confidence

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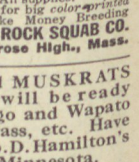

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in thet old line that I hed on there no how. But, I reckoned if I could play him long 'nuff pr'haps I could tire him out 'fore he busted it. Wal now, the swet was sure a'streamin' down my face an I'll admit I was a trifle nervous. Rush after rush the gol-darned heathen made an each time I thought it would be the last one.

"Stop figitin' around Silas, you 'aint half so excited as I be 'bout this, w'y goldarned my pitcher I'm livin the hull danged thing over again. Wal to make a long story short, as the old sayin' goes, thet darned fish turned up his toes, floated on the top of the lake, a'layin right on his side like a slab of wood, and decently 'lowed me to pull him rite in to'ward Seth and thet's the first time he had moved sinct the battle started. He grabbed my line, lifted him over the side of the boat just as thet old line busted off about a foot above the hook."

"Gosh all fish-hooks Lem, did you lose him?"

"Naw! lose him nuthin. I jus' fell flat on my belly top o' that fish an he didn't have a chanct to get away from us arter he landed in the boat. I never moved of'n thet fish 'till Seth paddled to shore an hawled her up on the bank."

"What wuz it Lem?"

"Four pound Small Mouth Black Bass by cracky, an when we got back home an Mother sot her eyes on thet there fish all she sed was, 'Goin agin to-merrer Lem?'"

Hank and Jeff

(*Continued from page 15*)

from a friend in the hills. When opened it disclosed six bear hams.

Hank entered the room as they were being displayed. He sniffed intensely, gave a short yelp and dashed out and away. On the lawn he stopped and howled a heartrending howl, then ran. When last they saw him, he was running like mad toward the dock. La Pine mounted horse and followed. He was too late to see it, but many witnesses there were. "That big houn' dawg jest lep in the water when he seen that thar steamer. Them men in that boat tried to pull him out but he bit at them. He jest was plumb bound he'd swim under that steamboat, an' the paddles struck him and dar he is."

Yes, there he was, crushed, still warm, with broken skull.

"You see that white stone? That's where he lies. We all loved him."

The hunter stared his wild animal stare. Slowly his words were rasped out:

"He—ware—my—dawg—I didn't—orter—done—it."

He turned and was lost sight of.

There is a little white stone in a place of honor under the cypresses and moss of New Orleans. There is an unnamed, now-forgotten mound 2,000 miles away on the track of the 49ers. But no one knows that their histories were closely bound together. They are the graves of Hank and Jeff.

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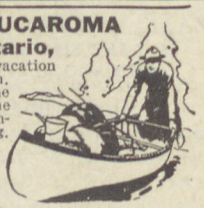

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THOROUGHBRED Llewellyn, Irish, English. Gordon setters. Pointers, Irish Spaniels, Chesapeak Retrievers, pups, trained dogs; describe kind wanted. Inclose 6 cents descriptive lists. Thoroughbred Kennels, Atlantic, Iowa. (1x25)

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FREE. Sales list of Thoroughbred English, Irish, Gordon Setters and Pointers. Broken dogs. Pups. Bred bitches and stud dogs. Sold on a Guarantee. Golden West Kennels, Dundee, Minn. (3-7)

"ATTENTION, Waltonians!" Champion Blooded Pedigreed Pointer and Setter Pups, four to eight months. C. O. D. Twenty-five Dollars. Guaranteed to please or return at my expense. John W. Chapman, Palmyra, Illinois. (5x26)

AT Stud—Some of the finest Irish Setters in America. Write for new folder and prices on breeding. T. D. McLister, Brighton, Tenn. (3-7)

Dogs

Pointers and Setters—Cont'd

GORDON Setters, puppies from imported champion parents, several broken dogs and bred bitches. Inglehurst Kennels, Dunellen, New Jersey. Mail address, Charles Inglee, 155 Montague, Brooklyn, New York. (3-9)

ENGLISH Setter puppies two months old. Riley Frush and Count Moring breeding. All papers. Males, $18.50; females, $15.00. F. H. Adams, Hartley, Iowa. (3-9)

FOR Sale. Registered English setter, male, year old Eugene's Ghost, Nugym, Speed Ben breeding, cheap. Ray Johnson, Wisconsin Rapids, Wis.

REGISTERED Llewellyn bitch, $25.00. Registered pups, 3 months, $15.00. Purebred pups. No papers. Females, $7.50. Male Pointer partly broken, $10.00, C. O. D. Vernon Sheffield, Campbell, Nebr.

POINTERS and setters. Broke dogs, and young stock, all registered or eligible. Write for list and prices. Satisfaction guaranteed. L. A. Welden, Gilman City, Missouri.

SIX Irish Setter females, 5-8 months. Law and Boyne breeding. Chip of Boyne at stud. Write for folder. E. T. Burke, Farmersville, Illinois.

CHOICE dark red Irish Setter puppies. $25, C. O. D. All papers. Alva Smith, Clearwater, Nebr. (3-8)

ENGLISH Setter and Pointer Pups, eight months. Champion Bloodlines. All papers. $30 to $50. O. H. Peek, Girard, Ill. (3-8)

IRISH Setter. Excellent brood bitch by Ch. Bran of Boyne, ex-Tipperary Eamon bitch. Cheap. R. E. Valbert, Girard, Ill. (6-7)

LLEWELLYN Setter Pups sired by son of John E. Dam, Whitestone Momoney blood. Five months old. W. Whittingham, Arpin, Wis.

LET me train your bird dog. Paul Otto, Winnfield, La. (3-9)

Police Dogs

FOR Sale—25 light and silver gray Police Pups of Kriminalpolizie blood line. Same as Strongheart. Males, $30.00. Females, $20.00. On approval. Thomas Dailey, Hannaford, No. Dak. (3-8)

FOR Sale—High class Shepherd (German Police) puppies. Kriminalpolizei strain; large, healthy stock, eligible to register. Ross Leisure, Cooperstown, N. Dak.

PEDIGREED Police Pups for sale and grown dogs all imported strains. Pups, $20.00 and $30.00. On approval. O. B. Helmer, Hannaford, No. Dak. (3-9)

POLICE puppies, Wolfe grey Kriminalpolizie blood lines. Eligible to registration in American Kennel Club. Carl Hanken, Stewartville, Minn. (3-8)

GERMAN Shepherd "Police" at stud; also trained dogs both sexes, and puppies, $25 each. Leon Robinson, Dunkirk, Ohio. (3-8)

FOR Sale. Police pups, Grown dogs, Bitches open and bred. Pedigreed. Write Karnak Kennels, Cooperstown, North Dakota. (3-8)

GERMAN Shepherd Police Puppies. Pedigreed, healthy, country raised. Satisfaction guaranteed. Thomas Spear, Sinclairville, N. Y.

POLICE Dogs. Sired by Son of Dolf von Dusternbrook. The best blood line of the breed to choose. The Rice Kennels, Spencer, Ind.

PUPPIES. From recently imported police trained show dogs. $25 and $35. Ridgeway Farm, Neenah, Wis., E. A. Nelson. (3-8)

Spaniels

SPRINGER Spaniels, from well-trained shooting dogs. Best of blood lines in pedigree, such as Dual Ch. Flint of Avendale, Laverstoke Powder Horn, Horsford Hetman. White, with liver, black or orange markings; also liver or blue roans. Sturdy, well-marked, country raised. Seven months old pups, $40.00 up. Year old youngsters by Springbok of Ware ex Ringlet of Avendale, $75 and $100. Also two imported trained brood matrons. Will send pictures if color, sex and age preference are given in inquiry. Dr. & Mrs. G. B. Wolfe, R. F. D. L, Box 184, Indianapolis, Indiana. (3-8)

SIX Springer Spaniel Pups (1 female), whelped April 12th. White and Liver. Out of Champion Carolyn of Koronis X Slow Gin of Gunflint, all beautifully marked. Wormed and ready for immediate delivery. Will ship anywhere upon satisfactory guarantee. If not as represented, return at my expense. Price, $65 and up. H. E. Cleveland, Hotel Duluth, St. Paul, Minn.

SPRINGER Spaniels. Ch. Horsford Harbour—Ch. Laverstoke Powder Horn—Montana Ware blood lines. Ready to deliver now. Eligible to registration. Black and white, and liver and white. Sage Brush Kennels, Sam Cooley, Mgr., Faith, S. Dak. (3-9)

Dogs

Spaniels—Continued

IRISH Water Spaniels, Genuine curly coated rat-tails. Splendid retrievers, land or water. Wonderful intelligence. Easy trained and handled. All puppies from experienced workers. Also youngsters and trained dogs always on hand. Percy K. Swan, Chico, California. (3-8)

SPRINGER for sale. Flush of Avandale 11. No. 413641 A. K. C. Whelped Jan. 13th, 1924. Beautiful Liver and White. Son of Champion Laverstoke Powder Horn. Guaranteed Duck retriever. Price, $125.00. D. F. Stiver, Goshen, Ind.

THREE litters Springer Spaniel Puppies; coming from such stock as only Flint of Avandale, Little Brand, Horsford Harbour, and Beechgrove lines can produce. Snaps, pedigrees and particulars on request. Dr. R. B. Miller, Abilene, Kansas.

ENGLISH Springer Spaniels. Beautifully marked puppies. None better. Correct age for next fall's hunting. Satisfaction and results guaranteed. Prices very reasonable. Write for particulars. Newell E. Ludlum, Medina, N. Y. (3-8)

SPRINGER Spaniels—Int. Ch. Horsford Harbour—Ch. Little Brand—Ch. Laverstrcke Powder Horn blood lines; finest pedigree possible. Ready for delivery now. Black and white and liver and white. J. E. Nester, Marysville, Kansas. (3-7)

SPRINGER Spaniels. For Sale — puppies, youngsters, bitches bred and open. Broke and unbroken. Superbly bred dogs always at stud. Best show and working strains known. John Stewart, Minot, N. D. (3-7)

AT Stud—English Springer Spaniel, Downton Bob Big Winner Shows and Field Trials. Fee, fifty dollars. Dean Swift, Edgerton, Wisconsin. (3-8)

CHESAPEAKE and Springer Spaniel puppies and young stock for sale. Priced to sell. Satisfaction guaranteed. Harry J. Carney, New Hampton, Iowa. (3-7)

COCKER Spaniels—Four months old solid black puppies, select breeding, priced reasonably. Dr. W. B. Maxson, Flemington, New Jersey. (3-9)

COCKER and Springer Pups. Eligible to registry. Reasonable prices. Dr. John E. Rogers, Oshkosh, Wis. (3-9)

ENGLISH Springer Spaniel. "Chief of Iowa" at Stud. Liver and White. Best blood lines. Fee, $50.00. C. F. Widman, McGregor, Iowa. (3-9)

ENGLISH Springer Spaniel puppies. Beauties. Liver and White. Whelped March 18. Eligible for registration. Vernal Carlson, Hoopeston, Ill. (3-8)

ENGLISH Springer Spaniels. Beautifully marked puppies of Avendale and Springbok of Ware bloodlines. Prices reasonable. Write for particulars. Oscar Wilke, Marshall, Wis.

FOR sale. Three registered Springer Spaniels, real quality dogs, two females in whelp and stud dog. D. L. MacDonald, 128 So. Shaffer St., Springfield, Ohio.

IRISH Water Spaniel puppies. Will work this fall. Trained dog and brood bitches. Working strain. Registered. M. Oliphant, Big Timber, Montana. (3-8)

SPRINGER Spaniel puppies. Bred from the best imported Bench Show and Field Trial strains. Sold on approval, $30 and up. W. J. Nissen, Box O, Oxford, Nebr. (3-9)

WATER Spaniel Pups, half Irish, half Cocker. Well bred parents. Retrievers on land and water. Males, $15. Females, $10. Charles Gallagher, Spencer, Iowa. (3-8)

COCKER Spaniel Puppies. Choice breeding, healthy and brainy stock. Sire Muskoka Billy B. Request stud card. H. M. Butler, Villard, Minn.

ENGLISH Springer Spaniel pups, $30.00, $40.00. Dr. F. L. Laffoon, 329 Westport, Kansas City, Mo.

FOR Sale—English Springer Spaniel pups sired by Ch. Springbok of Ware. Guaranteed. Cerro Gordo Kennels, Mason City, Iowa. (3-8)

FOR Sale: Cocker & Springer Spaniel puppies. Best blood lines. Nishnabotna Kennels, Red Oak, Iowa. (3-7)

IRISH Water Spaniels for sale. Puppies and youngsters. All high class registered stock. Walter Magnus, Webster, S. D. (3-8)

NATURAL Retriever. Hunted her with dogs, found none can cover ground with her for pointers. C. G. Robison, Lincoln, Ill. (3-9)

SALE. Black and red cocker pup. S. Bramble, R. 1, Wisconsin Rapids, Wis.

SPRINGERS and Chesapeakes. The good kind. Goodspeed's Kennels, Waverly, Iowa. (4-9)

SPRINGER pups, $25.00. Stud fees, $25.00. J. Stephenson, Boyne Falls, Mich.

Dogs

Terriers

DARE Devils. (Irish Terriers.) Protection, Playfellow, Pal for Kiddies. Only one man dog, fierce with strangers. Hunter. Noted for Courage and Brains. Litter registered pups for sale, bitch bred to Champion. Red Top Kennels, O. A. Teague, Texas. (4x26)

SIX pound—Bat-eared Toy Fox Terrier at Stud. Fee $15.00. Also toy puppies for sale. Mrs. Verna Schondel, Marshallville, Ohio. (6-9)

BOSTON Terrier Puppies, Brood matrons, Stud prospects. Priced reasonable. Hi-Test Kennels, Excelsior, Minn. (3-7)

BOSTON Terriers. Two registered dogs at stud. Four litters of eligible puppies. Esely's Kennels, Loudonville, Ohio. (3-9)

IRISH Terriers. Individuality, gameness. The companion you have always wanted. Registered. Dr. F. G. Dratz, Missoula, Mont. (7x26)

SMOOTH Foxterriers. Registered stock. Bitches bred, open. Also fine pups. Wells Kennels, Farina, Ill. (3-7)

Trainers—Dogs

SPANIEL training. Field trials or shooting dog, my specialty. A. Burhans, Waterloo, Iowa. (3-9)

WANTED, Bird dogs to train. Lots of birds, quail and chicken. Bidwell Training Kennels, McLean, Texas. Fred Bidwell, Prop.

BROTHER Waltonians, let me train your bird dog. Ray Huckaby, Gibsland, La. (3-7)

Wanted—Dogs

WANTED—Police and other puppies. Give age, color, weight and price. H. Hoffert, 352 West Madison St., Chicago, Illinois. (3-7)

Dog Remedies and Supplies

TETRACHLORETHYLENE for worms. A safe treatment for puppies and an effective treatment for grown dogs in cases of hook and round worms and running-barking fits. This new wormer was discovered by the Department of Agriculture and found as effective as Carbon Tetrachloride but safer to use in capsules for dogs and puppies. $1.00, postpaid. Harrison Chemical Co., Dept. 15, Quincy, Ill. (7x26)

TETRACHLORETHYLENE. Now recommended by the U. S. Dept. of Agriculture, as being more effective for round and hook worms than Carbon Tetrachloride. Safest anhelmintic known. No danger to dose puppies 3 weeks old. 24 puppy doses or 21 assorted $1 postpaid. O'Neall-Williams Co., Dept. O, Greenville, S. C. (3-7)

FIT-RID-O, a known remedy for running fits. Money refunded if results not obtained. If your druggist cannot supply you, order by mail. Price, $2.00 per bottle. W. F. Strayhorn Drug Company, 701 Chapel Hill Street, Durham, North Carolina. (3-8)

TRAINO Dog Collar almost immediately trains all bird, police and other dogs. Thousands in use. Exclusively recommended by Ozark Ripley and other noted sportsmen. Post prepaid $2.50. Lloyd & Co., Dept. O, Oscawana, N. Y. (3-7)

WEBER'S Famous Distemper Remedy and Preventive will save your dog. One trial will convince you of its merit; $1 per package, postpaid. J. R. Weber, Harrisburg, Pa. (3-9)

RUNNING fits in dogs cured in three doses. Large size, one dollar. Money refunded if not satisfied. W. W. Robertson, Druggist, Emporia, Va. (3-7)

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RELOAD your revolver and rifle shells, and realize greater sport and economy. Information free. Everything needed. A shooter's handbook for 50c, which is refunded on first $5 order. Belding & Mull, Inc., 832 Osceola Rd., Philipsburg, Pa. (3-8)

SELL 16-32 Remington made to order Damascus double hammerless, Smith 12-32 Damascus double hammergun, Colts 10 gauge hammer and hammerless doubles. Firearms List Hundred New and Used Guns, 10c. Frayseths Hardware, Milan, Minn. (3-8)

LOADING Tools, Moulds, Scales, Measurers for Metallic Cartridges and .410 Shot Shells; also M. J. Bullets, Primers and Cases. Handbook and catalog 10 cents. Modern-Bond Corp., 805 West Fifth St., Wilmington, Delaware. (12x24)

Fish and Game Attractions

DUCK! Fish! Muskrat! Foods that bring them in swarms. Plant now. 30 years experience. Advice free. Write for prices. Terrell's Aquatic Farm, 42 L Blk., Oshkosh, Wis. (3-8)

BEST of all duck foods for propagation. Wild Celery, Sago Pond Weed, Widgeon Grass. Address, Jasper B. White, Naturalist, Waterlily, Currituck Sound, North Carolina. (3-9)

BEST duck foods known. Wild Celery, Sago Pond Weed, Widgeon grass and others. Write. White's Game Preserve, Waterlily, Currituck Sound, N. C. (5-7)

MINNESOTA Giant Wild Rice Seed—Write for Special price on orders for September delivery. MacGregor-Dennerly Company, Aitkin, Minnesota. (3-8)

Fishing Tackle and Bait

DON'T go fishing when they won't bite. I can tell you when, where and how, by a new method thoroughly tried for three years. Don't pass up the good days, get my plan and have the edge on the other boys. Complete information for $1, money order or draft. Satisfaction guaranteed or money refunded. H. H. Kryder, Ligonier, Ind. (3-9)

CAT fish will bite. Send 50c for secret how to prepare a natural bait. No drugs or anything to buy. Bait easily gotten and prepared. Guaranteed or money back. Carl A. Haberlein, McPherson, Kansas. (3-9)

FLY Fisherman. New departure Weedless Birchtail or feather Bass flies, six dollars per dozen or will tie your ideal from sample or faithful description. Geo. F. Reinhardt, 1908 Washington Ave., Kansas City, Kans. (3-7)

SURKETCHUM—Acknowledged by expert fishermen as the only lifelike artificial minnow made to do away with baiting, always ready and fresh, 50c each. Postage paid. Pryor's Artificial Bait Co., 6810 Langley Ave., Chicago, Ill. (3-8)

GUARANTEED Turtle Traps. 4 in. mesh, 5 feet by 28 in. No. 36 twine. $3.50. Musky, Pike, landing nets, $3.00. Bass, $1.50. Quality Twine Mfg. Co., 901 Park Ave., S. W., Canton, Ohio. (3-8)

PRESERVED sour clams, "Best Catfish Bait," 2 lbs., postpaid, $1.00. Preserved minnows, 2 lbs., postpaid, $1.00. Doughbait "Guaranteed for Carp," 2 lbs., postpaid, $1.00. J. Curtiss Grigg, Hopkinton, Iowa. (3-8)

SIX cents brings you samples of the best silk casting lines. Fresh stock. Money back guarantee. The Emporium, 220 E. Main, Ft. Wayne, Ind. (3-7)

MR. Fisherman—Save money on your tackle. Send for catalog. Puritan Sales Co., Fort Wayne, Ind. (3-7)

FISHWORMS $1.00 pint. Postpaid. Albert Gandron, 154 South, West 16th St., Des Moines, Iowa. (3-7)

KNIT your own nets; particulars free. Old Skunk, Altoona, Kans. (3-7)

Food Products

SPRUCE Gum—Refined from high-grade stock fresh from Maine forest; twenty 5c packages to box, $1 postpaid. Eastern Gum Company, Monson, Me. (3-7)

DELICIOUS Wild Rice 30c per pound. Delivered fourth zone. Geo. Arnold, Warroad, Minn. (3-7)

CHOICE sweet pecans, ¼ lb., 35c. W. H. Karstaedt, Dayton, Ohio. (3-8)

PURE healthful comb honey, $2.00 gallon. Fulghum Seed Co., Lorain, Ohio.

For Sale or Exchange

SPORTSMEN'S Exchange. We buy, sell and exchange guns, rifles, revolvers, rods and reels, field glasses, cameras, watches, musical instruments and furs. Send the article with a letter, and we will make you our best offer by return mail. E. Wanger & Co., Dep't A., 302 Market St., Philadelphia, Pa. (3x26)

For Smokers

CLAYSCHAUM Pipes from Scotland. A sweet, dry smoke. Porous clay, absorbs nicotine, conserves health. Once tried you will smoke no other. Recommended by the Medical Profession. Sample 15c, two 25c, six 60c, twelve $1.00, postpaid. Scotch Clayschaum Pipe Company, Importers, Dept. K2, Laurel, Maryland. (3-8)

YOU Red-blooded Go-getters: Treat yourself to 10 of the World's finest 2 for 25 Panetelas. In air-tight tins, prepaid post $1.00. Just fits pocket of your coat or car. Randall-Wagner Co., Inc., 76 East South Water St. (corner Michigan Ave.), Chicago, Ill. (3-7)

For Smokers—Continued

SEND 10 cents silver or stamps for sample package 20 fine cigarettes. Large pocket tin Special Blend smoking tobacco also sent for 10c. Direct-to-smoker. French Tobacco Company, Dept. 3, Statesville, North Carolina.

HOMESPUN Tobacco, 5-lb chewing, $1.80; 5 smoking, $1.00, prepaid. Jim Foy, Dukedom, Tenn.

Game Birds and Animals

STOP—Read—1925 silver black fox pups. Also adults and proven breeders. Wonderful quality with right prices. Our stock is from prize winners and of the best blood lines obtainable in Canada. We own an eighty-five pair ranch, the largest and finest in Ohio. Let us give you our prices before buying elsewhere. Also have Raccoon, Mink, Marten and Fisher for sale. Hubers Reliable Silver Black Fox and Game Farm, Long High St., Fostoria, Ohio. (6x26)

I AM offering a few pair of my young, black raccoon for delivery in July and August. I have raccoon as black as a skunk and to be able to get them you must contract in advance. Stock is limited and I will only have a few pair for sale. Our circular on breeding and care, 10 cents. L. S. Russell, Cardington, Ohio. (3-8)

FOR Sale—Extra large dark northern muskrats, selected for breeding purpose. Delivery alive guaranteed. Order now for fall delivery. The Great Northern Muskrat Farms, Ypsilanti, Michigan. (3-8)

MT. YONAH Farm Kennels, Cleveland, Ga., offers for sale coon, opossums, skunk, and squirrel dogs; and fox and rabbit hounds. Catalog and summer price list free. Trial allowed on all trained dogs. (3-9)

BEAR Cubs for pets, zoos, parks, pleasure resorts, filling stations, wayside cafes. Also timber wolf, coyote and badger pups. C. P. Forge, Portage La Prairie, Manitoba, Canada.

I CATCH from 45 to 60 foxes in from 4 to 5 weeks' time. Can teach any reader of this magazine how to get them. Write for particulars. W. A. Hadley, Stanstead, Quebec. (6-10)

CAN deliver immediately all fur and wild animals, game and fancy birds. Silverplume, Orange, New Jersey. (3-7)

NOW is the time to order Storm Island Blue Foxes for pen breeding. Quality A-1 and price right. W. N. Abbes, Fanshaw, Alaska. (3-7)

PHEASANTS, Waterfowl, Wild Turkeys, Grouse, Quail, Rabbits, Deer. Stamp for price list. Jaser's Pheasantry, Walhalla, Mich. (3-9)

RABBITS for sale—Pedigreed stock. $2.00 up. Illustrated book 10c. Maikranz Rabbitry, New Bethlehem, Pa. (6-9)

SALE ranch bred raccoons; 1926 females, $12.00; males, $10.00. Dewey Imler, Spencerville, Ohio.

SALE: Northern Wild red foxes, coyote pups. C. Clinton, Fayville, Ill. (3-7)

Help Wanted

MEN, 18 up, wanting U. S. Mail Service positions, $142 to $225 monthly; steady; experience or correspondence course unnecessary. Write, A. Bradford, 112 N. 50th St., Philadelphia, Pa. (3-9)

DETECTIVES earn big money. Excellent opportunity. Travel. Experience unnecessary. Write, George Wagner, former Government Detective, 1968 Broadway, New York. (3-9)

Indian Goods

BOW, Arrows, $1.60; Beaded Fobs, $1.00; War Clubs, Belts, Moccasins, $4.50; Dozen Arrowheads, $2.50; Beaded Hatbands, Headbands, Necklaces, $2.75; Eagle Feather War bonnets, $15.50; Everything in Ancient and Modern Indian Handicraft. Navajo Blankets. Birchbark Canoe, Catalog 25c. Chief Flying Cloud, Dept. O, Harbor Springs, Michigan. (5x26)

Miscellaneous

RHEUMATISM, Neuritis, Why Suffer? Persons pronounced incurable desiring quick relief and guaranteed recovery try Ancient Hindu Remedy discovered and adapted to modern science by Huntington College Chemist. Order complete treatment, $1.50. Satisfaction or money refunded. Sample 50c. Write Prof. Guha, Box L-1006, Huntington, Ind. (3-7)

CASH paid for Dental Gold, False Teeth, Discarded Jewelry, Diamonds, Platinum. Mail, Florida Gold Refining Co., 21 W. Adams. Jacksonville, Fla.

Miscellaneous—Cont'd

QUALITY Flags, made of "Class A" Bunting, Sold direct to you. Moth proof, sewed stripes, embroidered stars. Satisfaction guaranteed. Send for price list. Standard Flag Co., Houghton, Mich. (3-7)

WATERWEEDS removed easily and effectively from any lake, pond or river. Write for particulars. Aschert Bros., 309 East 36th Street, Los Angeles, Calif. (4x26)

100 5-GRAIN Aspirin Tablets by mail for only 50 cents; samples and agents terms free. Address Gem Supply Co., Box 377, LaCrosse, Wis. (3-8)

HIGH Blood pressure inexpensively overcome, without drugs. Send address. Dr. L. Stokes, Mohawk, Florida. (3-9)

Music and Musical Instruments

I WANT Song Poems. Casper Nathan, P-3544 N. Racine, Chicago. (3-9)

MUSIC Composed to words. Bauer Bros. (formerly of Sousa's Band), Oshkosh, Wis. (3-7)

Outing Equipment

ALL Wool Camp Blankets. $9 buys big warm 72x86—4 ½ lb. single blanket, gray, brown, red or white, postpaid direct from factory. Faribault Woolen Mill, Faribault, Minn. (3-7)

SLIGHTLY used tents for sale. All styles, all sizes. Write for descriptive list. The Hettrick Mfg. Co., Toledo, Ohio.

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PATENTS. Booklet free. Highest references. Best results. Send drawing or model for search. Watson E. Coleman, Registered Patent Lawyer, Opposite Patent Office, Washington, D. C. (4x26)

Photography—Cameras

MODERN Photography in all its branches now taught by mail. New, successful method Write for particulars and unusual offer, open for short time. International Studios, Inc., Dept. 7172, 3601 Michigan Ave., Chicago, Illinois. (12-1)

KODAK finishing—professional service for the amateur. Send negative and 5c in stamps for sample print and price list. Ehrhart's Studio, Antwerp, Ohio. (3-7)

YOUR small films enlarged on postcards, 20 for $1. Stinson, 242 Scott St., Oshkosh, Wis. (3-7)

FOR Sale—Tanks, Printer, Trays, and other items. Homer Barnes, Spring Valley, Minn. (3-7)

BEAUTIFUL oil paintings from your snapshots. Particulars, W. Taylor, 64 West Sixth Ave., Vancouver, Canada. (7-7)

Printing and Stationery

PRINTED Stationery—100 envelopes, 200 sheets white bond paper, printed with your name and address, in blue ink, old English or neat block type. Sent postpaid for $1. Satisfaction or money back. Bodkin Printing Co., Bardwell, Ky. (3-8)

LABELS attract attention to your products more than anything else. Let us design one for you. Free samples sent on request. Agents wanted. Willson Spielmann Label Co., 544 Lake Shore Drive, Chicago.

"NEARGRAVURE-EMBOSO" (type embossed) —500 fine, Plain, Ripple Bond letterheads, special $5.75 postpaid. Sollidays', Knox, Ind. (3-7)

WE print stationery, booklets, catalogs, circulars. Samples. Fancier's Press, Box 1, Batavia, Ohio. (3-8)

250 BOND Letterheads or envelopes, $1.25. W. E. Moyer Supply House, Milton, Pa. (3-9)

Real Estate

FOR Sale: Trout Fishing Land. Big and Little Carleton Creeks, stocked annually with brook trout for years, in 1600 acre virgin tract. Secluded. Fenced. Rented for grazing. Beautifully timbered. Water power. Rural delivery and telephone available. 1 ¼ miles east from West Michigan Pike Motor Bus Line. 1 ½ mile from Pere Marquette Railroad station. 3 ½ miles from Montague and Whitehall where Chicago steamers dock. Taxes paid. No encumbrances. In Oceana, banner fruit county. $20 an acre. Long time payments. Estate of Wm. T. Cushing, 413 St. James Place, Chicago, Ill. (3-8)

Real Estate—Continued

ACREAGE—On the East fork of Black River; 200 acres; excellent timber land, about 60 acres red cedar; river frontage; less than one mile off Highway No. 21; Price $3,000; worth double; fine for hunting and fishing lodge. For further particulars apply to Bank of Desloge, Desloge, Missouri.

IF you want land with frontage on lake or river for summer homes please inquire of us before you buy. Beautiful wooded lots $150 each, acreage $25 to $50 per acre. We are owners and our land is free from any incumbrance, easy terms if desired. Emerson Bros., Tripoli, Oneida County, Wisconsin. (3-8)

FOR Sale. 34 acres lake frontage on Lakes Mary and Julia, Marinette County, with fine cabin fully equipped and well. Wonderful fishing, deer, ducks, partridge, prairie chicken hunting, located near McAllister, Wis. Write, Geo. G. DeBroux, Denmark, Wis.

TOURISTS, Hunters, Fishermen: I own properties like you want near Main line of Chicago, Milwaukee and St. Paul Railway, two hundred and seventy miles north of Chicago. At reasonable prices with or without cabins. E. G. Sault, Pembine, Wisconsin. (3-8)

BEAUTIFUL site on Fence Lake, near Minocqua, Wis. Three hundred foot front for thirty-five hundred. Many other pike, bass and muskie lakes close by. H. M. Newton, 422 Fredonia Ave., Peoria, Ill. (3-7)

FOR Sale: Hans Johnson's Trout and Bass Fishing Resort, also 91 acre farm on Prairie River, Echo Lake. Four miles north of Gleason on 63. Reason, old age. Write Hans Johnson, R. I. Gleason, Wisconsin. (3-7)

—Lake Frontage—Fifty Foot Up—
—Famous Manitowish Waters—
Correct situation and conditions for sportsman. All you want in a cottage site. Big fish and game. E. R. Perkins, Manitowish, Wis. (2-7)

LOG Cabin with forty acres on Flambeau River, Northern Wisconsin. Muskelonge, Partridge, Deer. A fine summer camp. Fifteen hundred dollars. Flambeau Fishing Club, 222 East Fourth St., Cincinnati, Ohio.

SKY Blue Lodge. Forty acres in Northern Minnesota. Big game and fish country. Large log cabin, fully equipped. Price, Four Hundred Dollars. Arthur Neubert, Mankato, Minnesota. (3-8)

FINEST location for private club in Michigan. Two hundred forty acres in Emmett County with hills and springs. Will sacrifice price to close estate. Levi Joslin, Grand Ledge, Mich. (3-9)

$5 DOWN, $5 monthly; five acres fruit, poultry, fur farm; river front, Ozarks, $100, hunting, fishing, trapping. Harold Hubbard, 1973 North Fifth, Kansas City, Kans. (12-12)

SELL your property quickly for cash, no matter where located. Particulars free. Real Estate Salesman Co., 530 Brownell, Lincoln, Nebr. (3-7)

LAND on fine fishing, hunting and trapping lake in Minnesota. H. H. Rohwer, Ft. Calhoun, Nebr.

FLORIDA and Tennessee Land Bargains. Write Chas. Pickel, Kingston, Tenn. (3-7)

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CARTOONING and Commercial Art. 25 lessons, 300 illustrations, 2 clothbound volumes and drawing outfit $5 postpaid. Catalog free. Nu-Way Art School, 220 W. Graham Ave., Brooklyn, N. Y. (3-8)

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PENNY Approvals that Satisfy. N. Gronberg, Box 5441, Philadelphia, Pa. (3-8)

FREE—Stamp collection. F. Gorup, 1607-C Street, Cedar Rapids, Iowa. (3-8)

Taxidermy

FOR Sale. Fine newly mounted Deer Heads. Horns and scalps. Fine fur rugs and Game Heads. S. Gerhardt, Roslindale, Mass. (3-7)

ARTIFICIAL Eyes. Booklet Free. Denver Optic, 587 Barclay, Denver, Colo. (3-7)

Wearing Apparel

REAL Harris Tweed, direct from the makers by post, $2 per yard, carriage paid; patterns free on request. S. A. Newall & Sons, 162 Stornaway, Scotland.

Results

Nashville, Mich.
May 10, 1926.

Outdoor America,
Chicago, Ill.

Gents:

Enclosed please find P. O. order for $3.90 for which please insert the enclosed adv. three times in Outdoor America (13 words 10c per word 3 times.)

I had fine results from a former adv. and regard your magazine as the best advertising medium of any.

Resp'y,

A. G. Murray,
Nashville,
Mich.

Sell or Buy ?

IF you have something you want to sell, or if someone else has something you want to buy, put your ad in the Classified Department of OUTDOOR AMERICA. It will be sure to bring results.

¶ The rates for classified advertising are shown at the top of page 76.

¶ Send your copy, with the correct amount, in time to run in the August Issue.

¶ Address:

Classified Advertising Department
Outdoor America
536 Lake Shore Drive
CHICAGO

Do You Really Want Adventure?

What magic's in that word—adventure. It's the one thing we all long for in this busy, frantic scrambling of a work-a-day world. And how few of us ever find it.

But you can have the very adventures you have always craved. What will you choose? Are you drawn by the lure of the Orient, with its eternal mystery? Is it the challenge of the frozen north, the call of the sea, or the hidden dangers of far-off lands?

Whatever it is you can have it—the thrills, the excitement, the discoveries and surprises that only adventurers know, the things that make life worth living. You can have them all through Adventure.

Adventure will bring you the riches of the earth. Through its pages you will see things as they really are. Let it take you back to the days of the Forty-niners, the days of gold and gambling; explore the dangerous fastnesses of forbidden Tibet; voyage up the mighty Amazon in search of lost treasure; lead the care-free life of a cowboy on the western plains, or sail on any of the seven seas.

These are some of the things Adventure offers you. If you like the great out-of-doors; if you enjoy clean, well-written stories of men who do things; if you would know about strange peoples, visit distant lands, see odd customs—you want Adventure.

Each issue brings you a wealth of serials, complete novelettes and short stories, all written by experts who know their subjects and how to write fascinatingly. Adventure's fiction is clean, accurate, full of color and life. It deals with deeds, with adventures, the very kind of men you like. That's why it is a favorite with alert men and women everywhere—with the leaders in the business and professional worlds, with people like yourself.

Do you really want Adventure?

Then fill out the coupon and mail it today. We will send you a copy free, without any obligation. But in your own interest don't delay.

Send the coupon *now*.

Dept. Y

The Ridgway Company
Spring and Macdougal Sts.
New York City

Gentlemen: I'd like to read a copy of Adventure. Please send me free a sample copy to the following address. It is understood this does not obligate me in any way.

Name _____

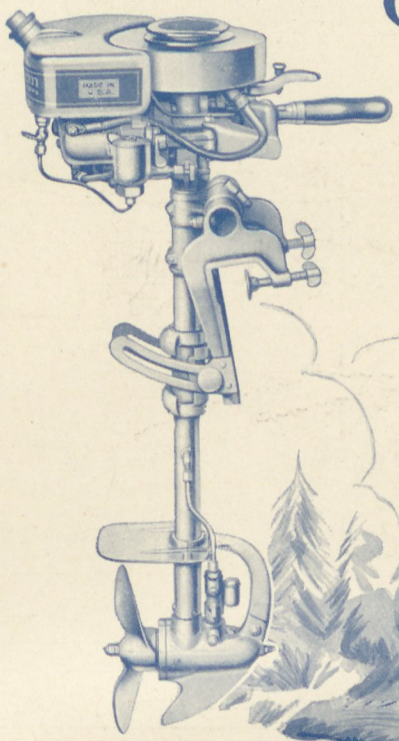
Address _____

City _____ *State* _____

A friendly fishing Pal-

The Johnson Light Single

Weighs but 26 pounds . . . the lightest weight, most comfortable one-arm-carry outboard motor made . . . Price $115.



RESPONSIVE, *even power* is developed to a high degree in the Johnson Motor. To the critical angler this means much . . . it means maintaining a *steady drive* at all trolling, as well as traveling speeds.

Even at its slowest trolling speed, the propulsion of a Johnson is uniform and smooth — perfectly timed. Anglers appreciate this exceptional performance in the Johnson.

The 26 pound Johnson *Light Single* is ideal for fishermen. Packs in little space—is easily taken by auto or on the train. It has *power*—it is *fast*—yet it can be throttled down to a pace slower than a walk. Withal, it is the *lightest-weight, easiest-to-carry* outboard motor made.

Ask your Johnson dealer about *Full Pivot Steering* and the *Shock Absorber Drive.* These two superior features make possible the wonderful ease of manipulation for which the Johnson is known.

Any Johnson dealer will gladly let you take a motor for trial. If you do not know of the dealer nearest you—write us. Sold on payments if desired.

JOHNSON MOTOR COMPANY, 1214 Sample St., South Bend, Indiana

Eastern Distributor and Export:
New York Johnson Motor Co., Inc.
4 West 61st St., New York, N. Y.

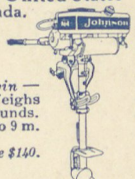
Canadian Distributor:
Peterborough Canoe Co.,
Peterborough, Ontario

In the Wake of the Johnson

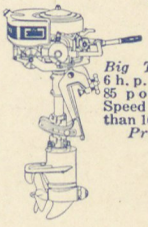
Many Johnson owners are numbered among this country's famous fishermen . . . Ozark Ripley, Robt. Page Lincoln, Sheridan Jones, Ed Taylor, Richard K Wood, Cal Johnson and Van Campen Heilner . . . all Johnson enthusiasts.

Two features exclusively Johnson are: *Full Pivot Steering* giving any, all, *every* direction with full power in the direction you're going. *Shock Absorber Drive* which safeguards the motor mechanism when striking underwater obstructions.

Mail the below coupon for our "*Guide to Waterway Travel.*" A 190 page book of over 40 charted canoe and boat trips through United States and Canada.



Light Twin — 2½ h.p. Weighs but 35 pounds. Speed 2 to 9 m. p. h. *Price $140.*



Big Twin — 6 h. p. Weighs 85 pounds. Speed better than 16 m.p.h. *Price $195.*

JOHNSON MOTOR CO.,
1214 Sample Street, South Bend, Ind.
I'm interested in water trips. Send me free your *Guide to Waterways Travel.*

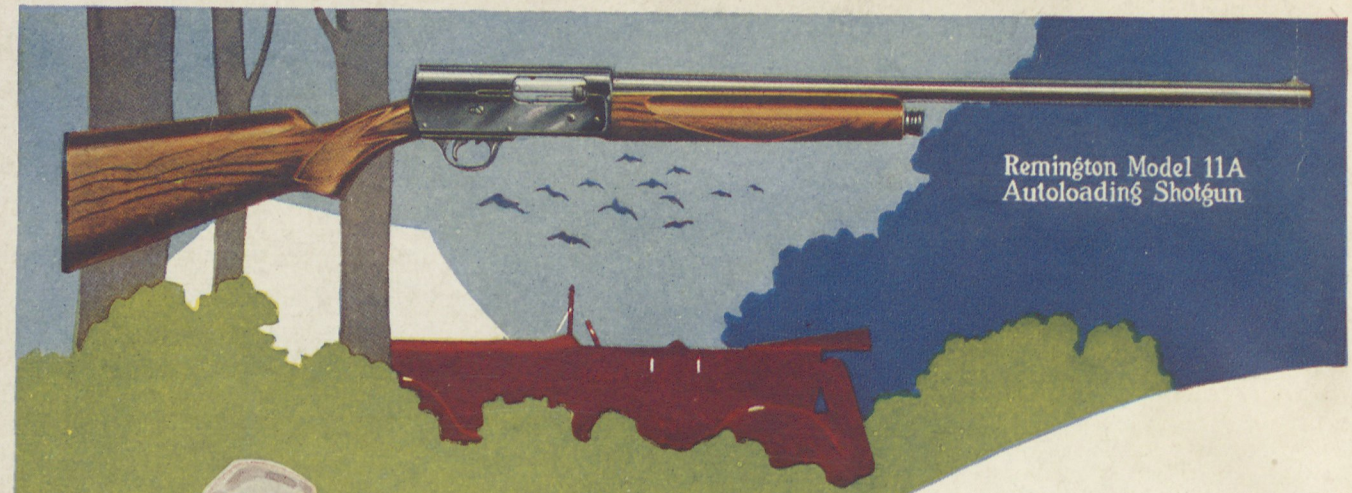
Name _____

Address _____

City _____ State _____

Johnson
Outboard Motors

WORLD'S LARGEST MANUFACTURERS OF OUTBOARD MOTORS



The Higher They Fly, The Harder They Fall

SOON twinkling V-shaped wedges of duck will be speeding Northward on whistling wings. Teal, black duck, and then broadbill and others will be craning their necks suspiciously at the wooden traitors bobbing invitingly on the water beneath them.

The wise ones have learned, through generations of experience, to keep just out of ordinary shotgun range.

If you have an *ordinary* shotgun and *ordinary* loads your bag will be small and the trip a disappointment.

But the higher they fly, the harder they fall for the new Model 11A Remington Autoloading shotgun and the Nitro Express Extra Long Range Loads.

The Model 11A has a checkered fore-end and pistol grip. It is fast, hard hitting and true pointing—a perfectly balanced gun for duck shooters. And it sells at a new low price with the war tax off.

With the Remington Autoloader you are sure of your birds—it prevents cripples. Its mechanism is sturdily made and dependable.

The Model 11A is the duck hunter's favorite and Nitro Express Loads have the longest range ever developed within safety limits in the history of shotgun shooting. With this Remington combination you can bring down ducks at incredible distances.

Put in your order now and be ready for the season without regrets.

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Remington Arms Company, Inc.
25 Broadway *Established 1816* New York City

Remington

Rifles Ammunition Shotguns Game Loads Cutlery Cash Registers